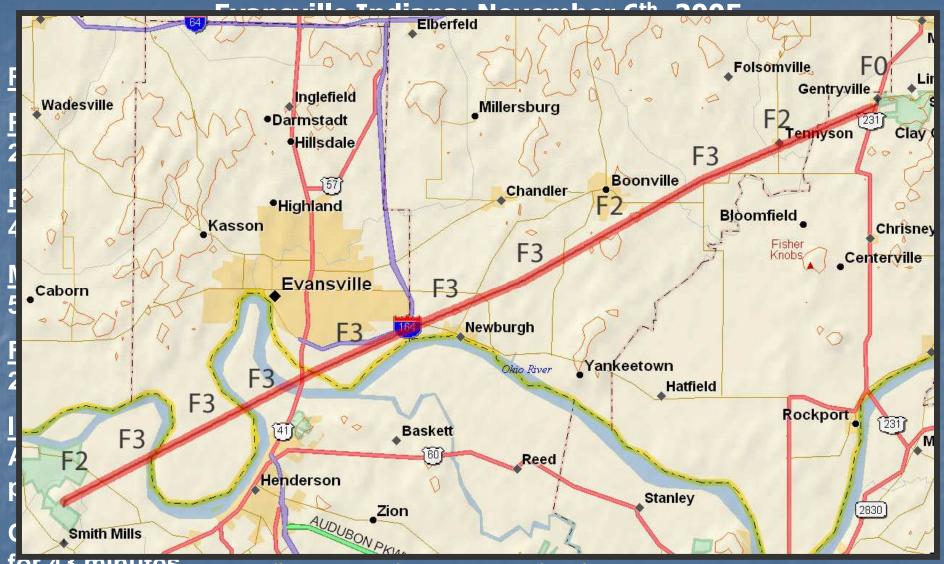


## Tornado captured by webcam at Deaconess Women's Hospital in



for 43 minutes

Deadliest Tornado in NWS Paducah Forecast Area since: <1950

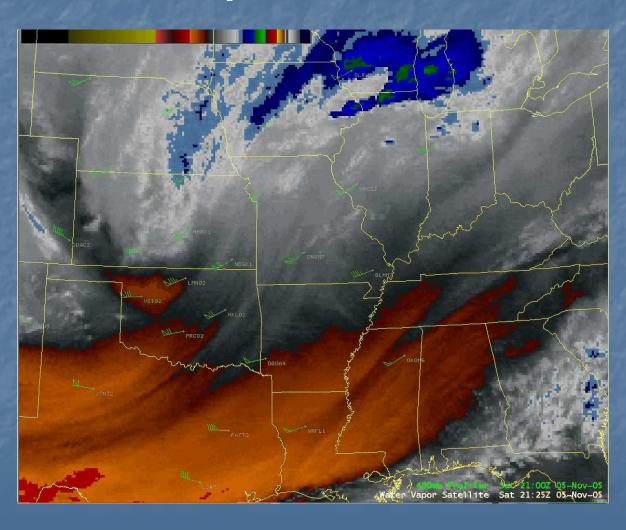
139AM-222AM

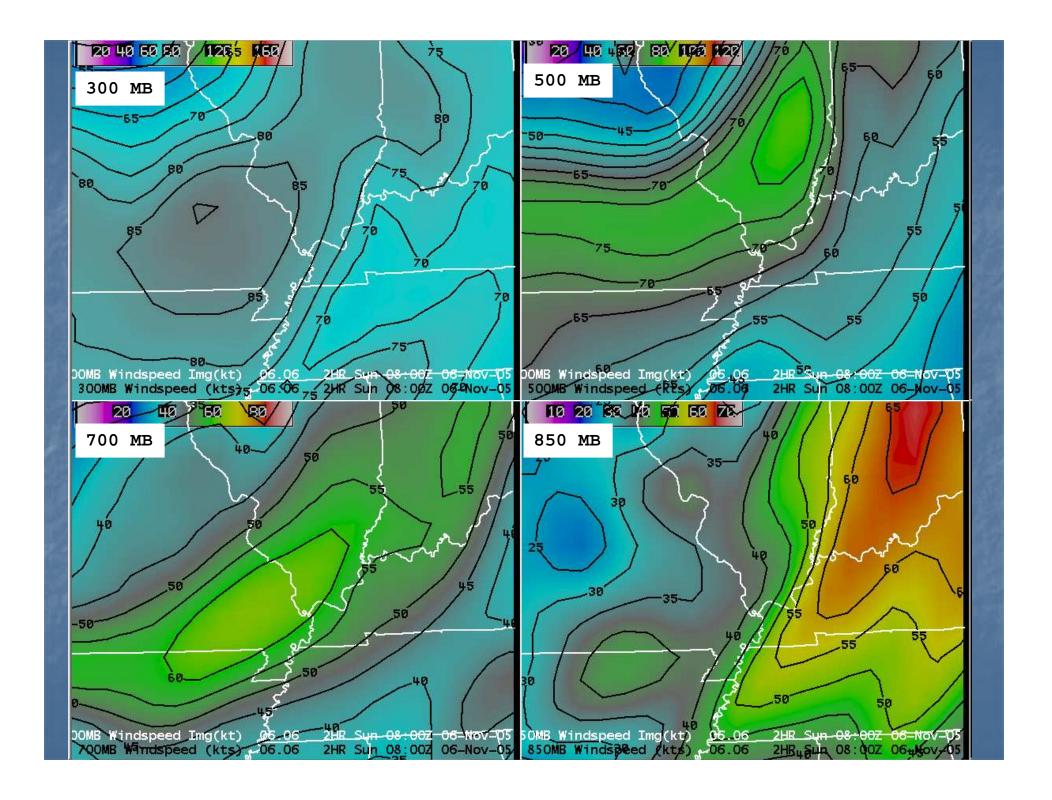


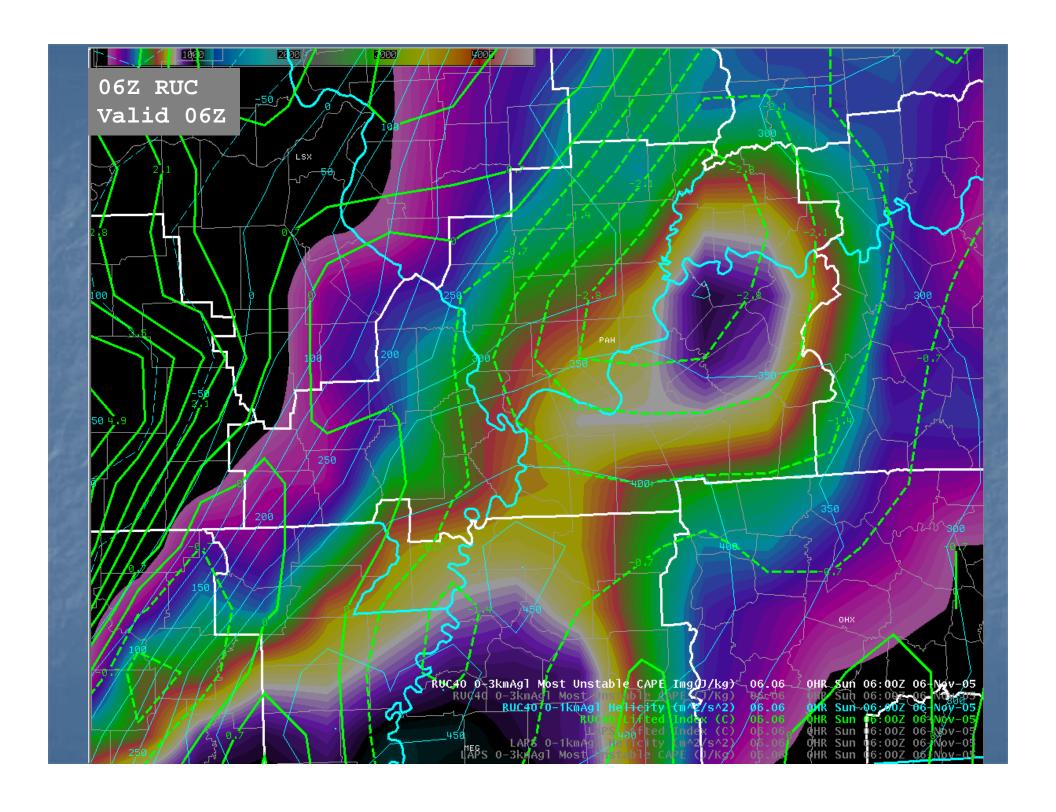
- Sustained a high intensity (Mainly Upper F2 To Upper F3 )
  - Tornado was intense (F2-F3) minutes after touchdown.
    - 41 mile path crossed the Ohio River 3 times
    - Total dollar loss in the hundreds of millions
      - Traveled at speeds 60 to 70 mph!
      - 500+ Buildings/Homes Destroyed
        - 3 Locations at upper end of F3
    - 25 fatalities: 20 at Eastbrook Mobile Home Park
      - 24 of 25 fatalities in mobile homes
        - 1 vehicle related fatality

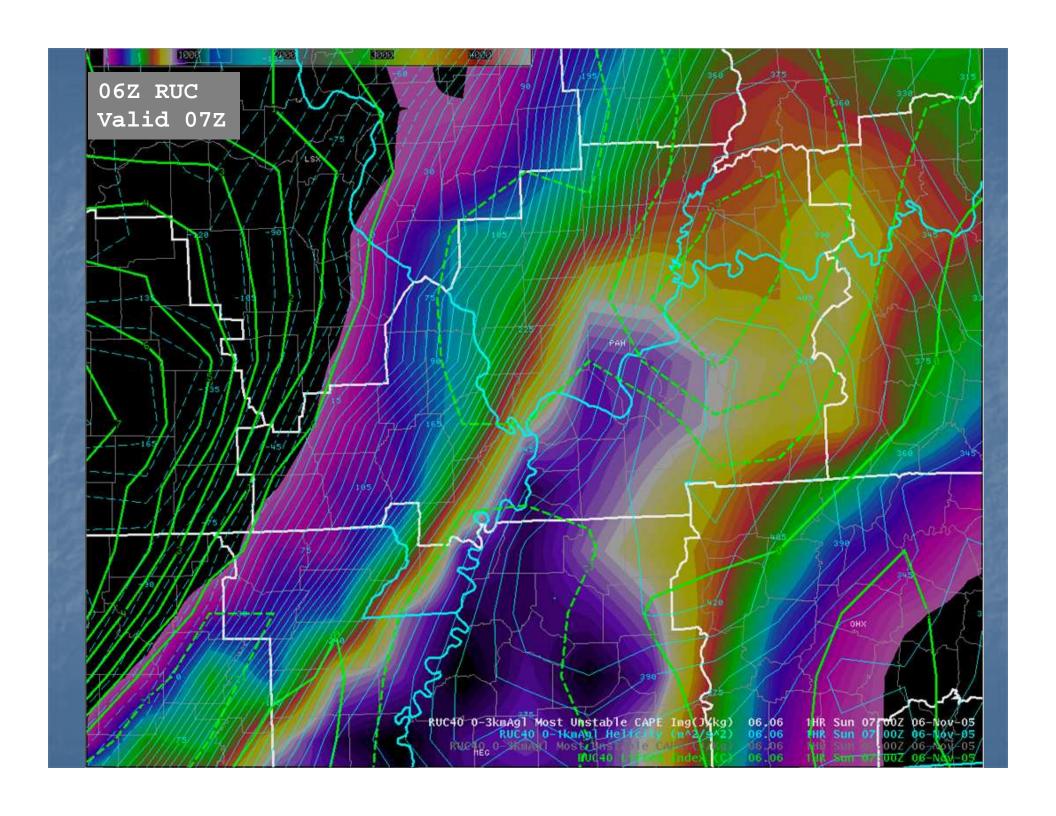


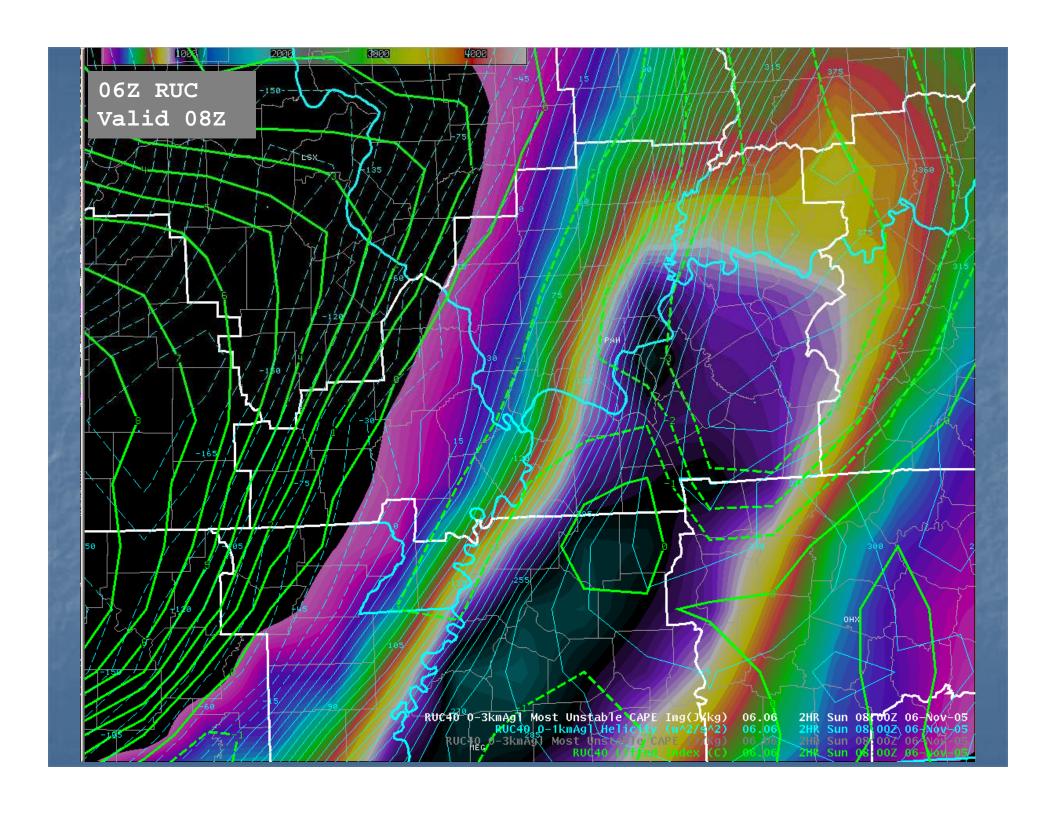
## Water Vapor 2125 UTC - 0432 UTC

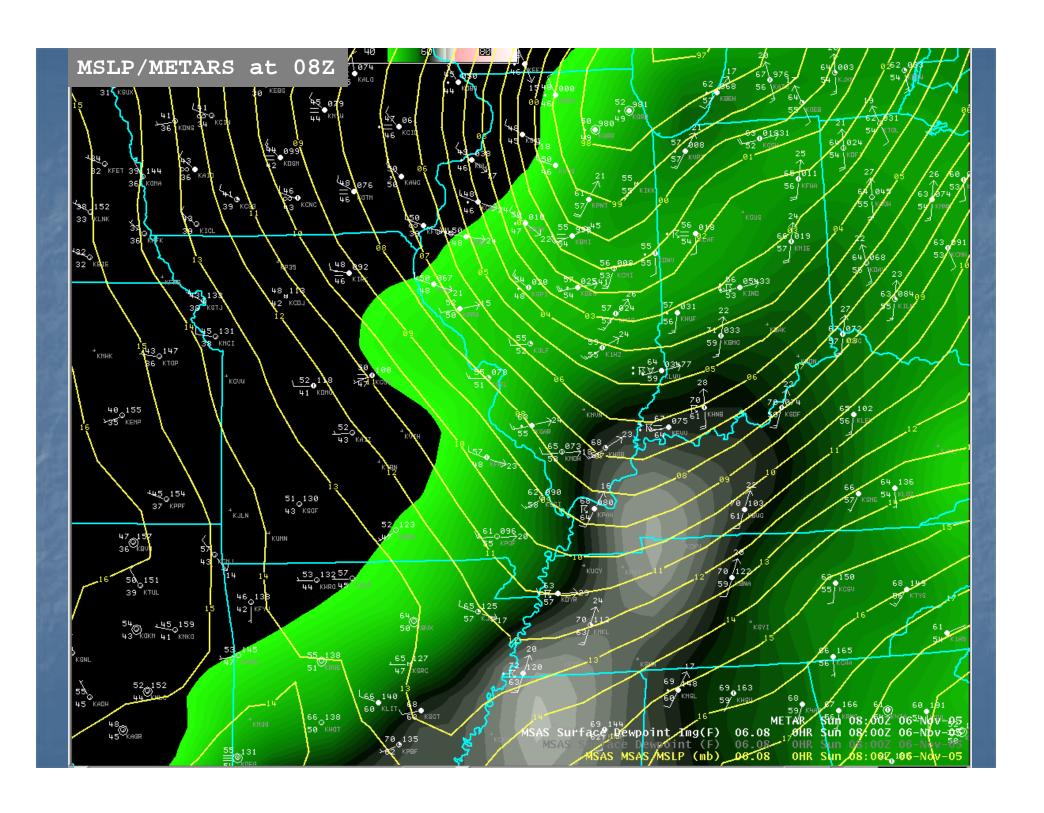


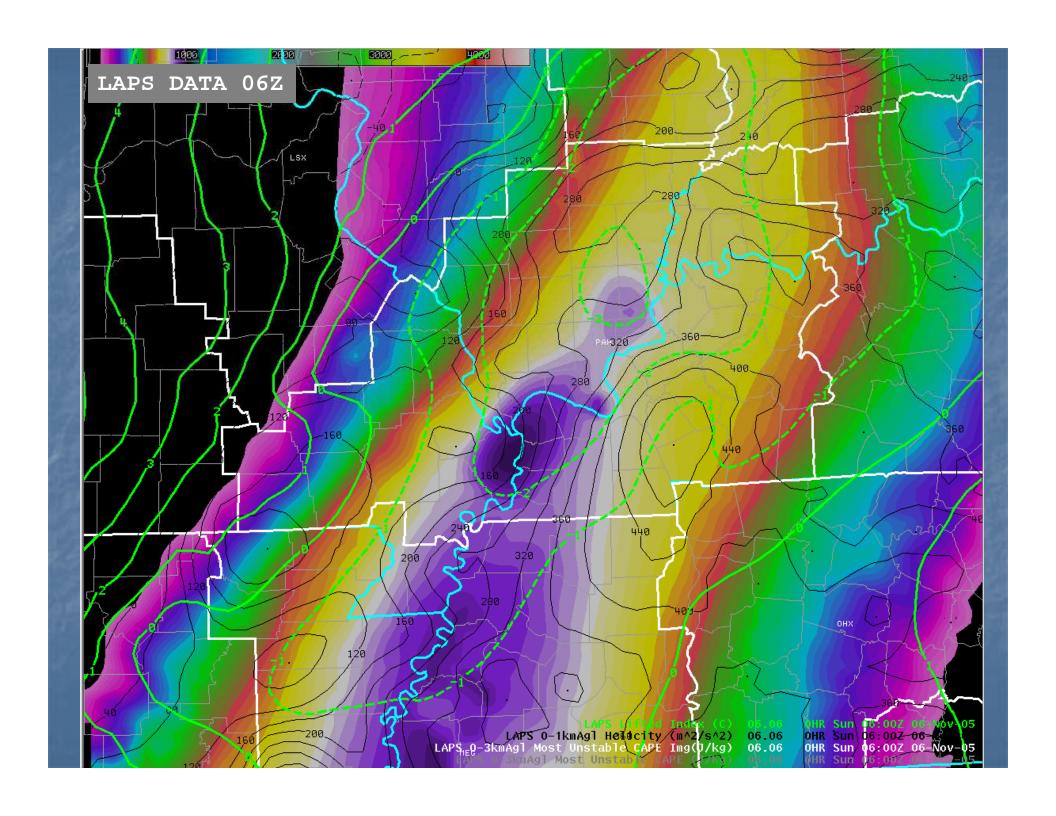


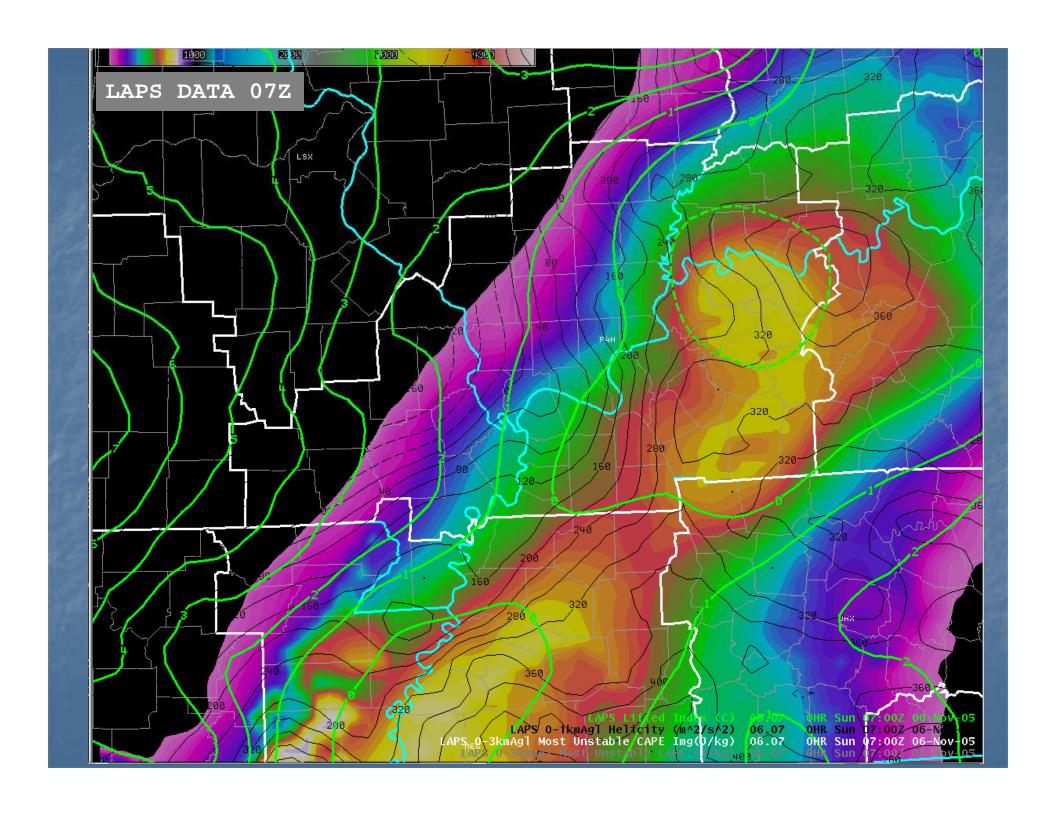


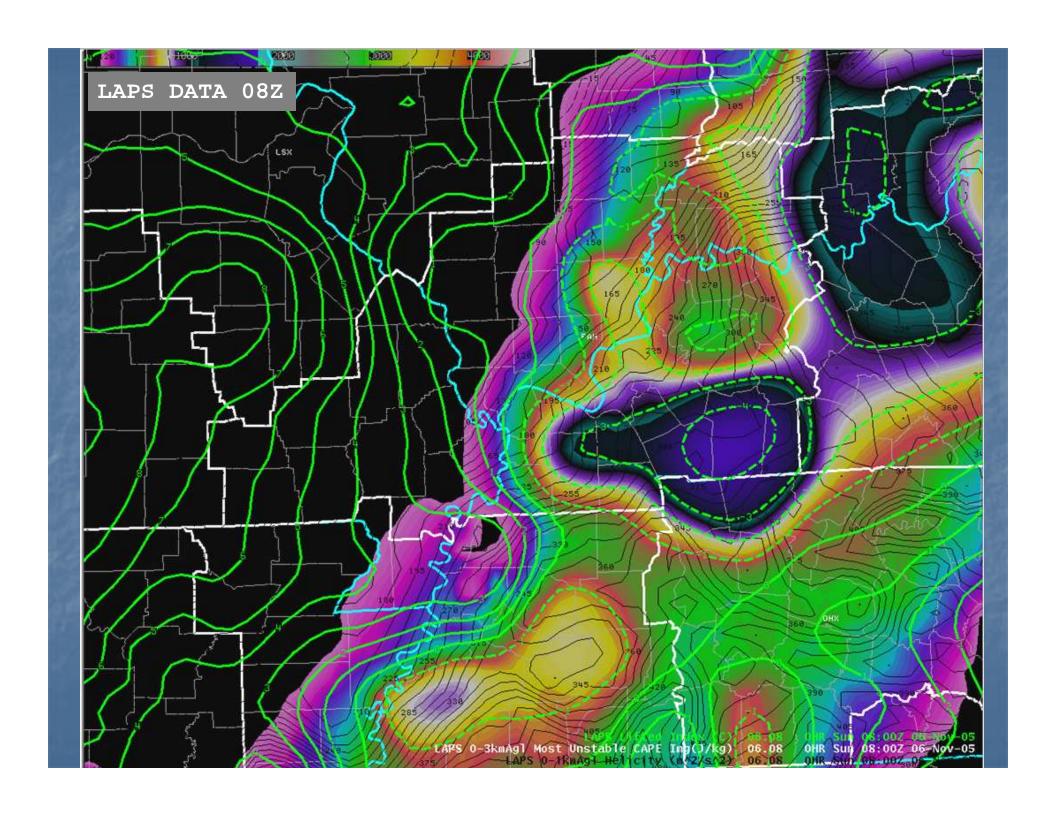


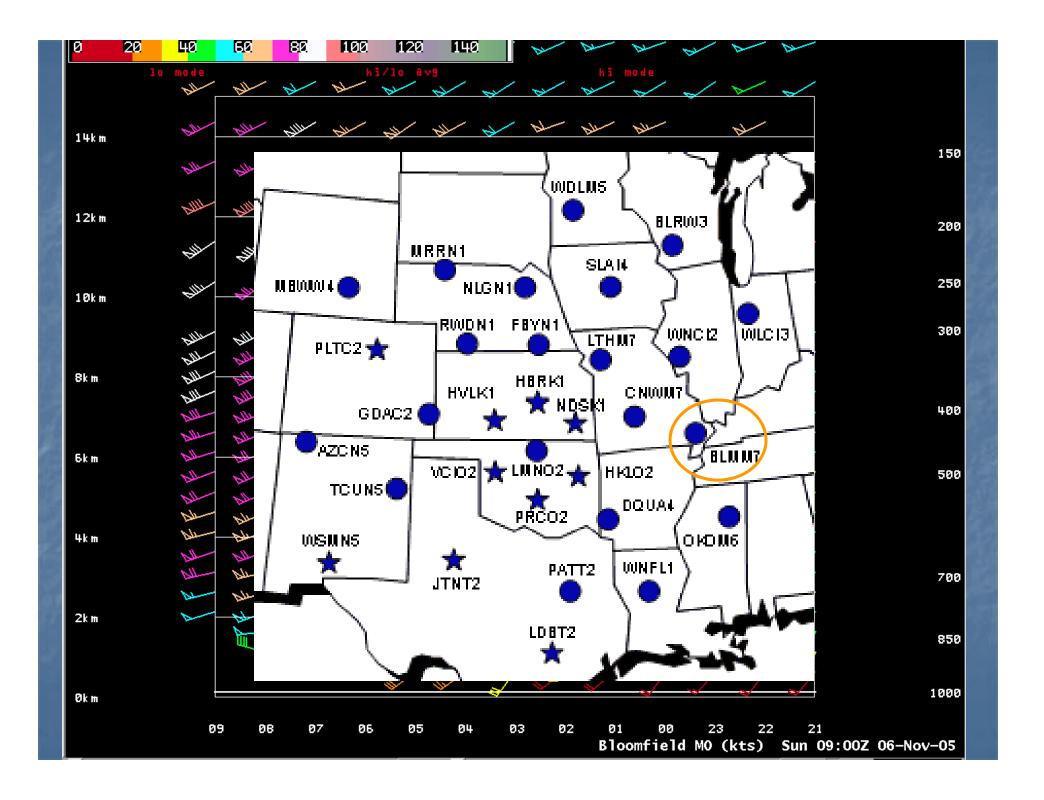






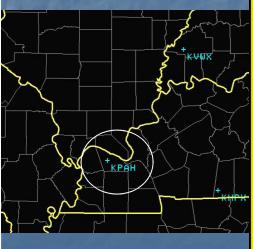


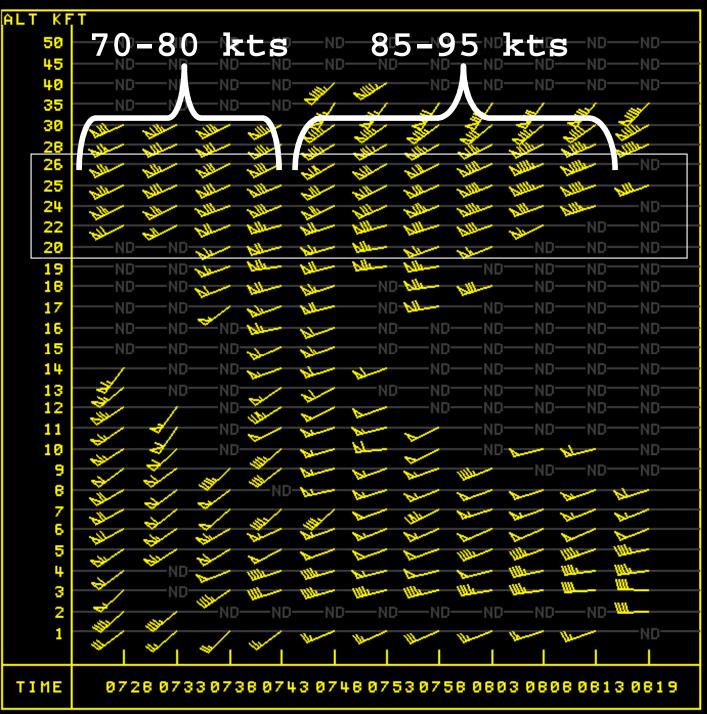




## KPAH: PADUCAH

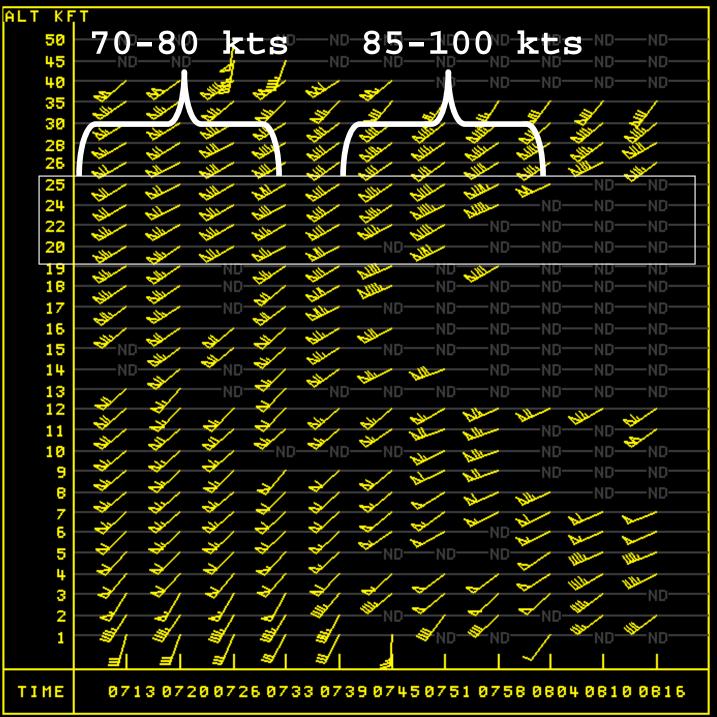
VAD WIND PROFILER

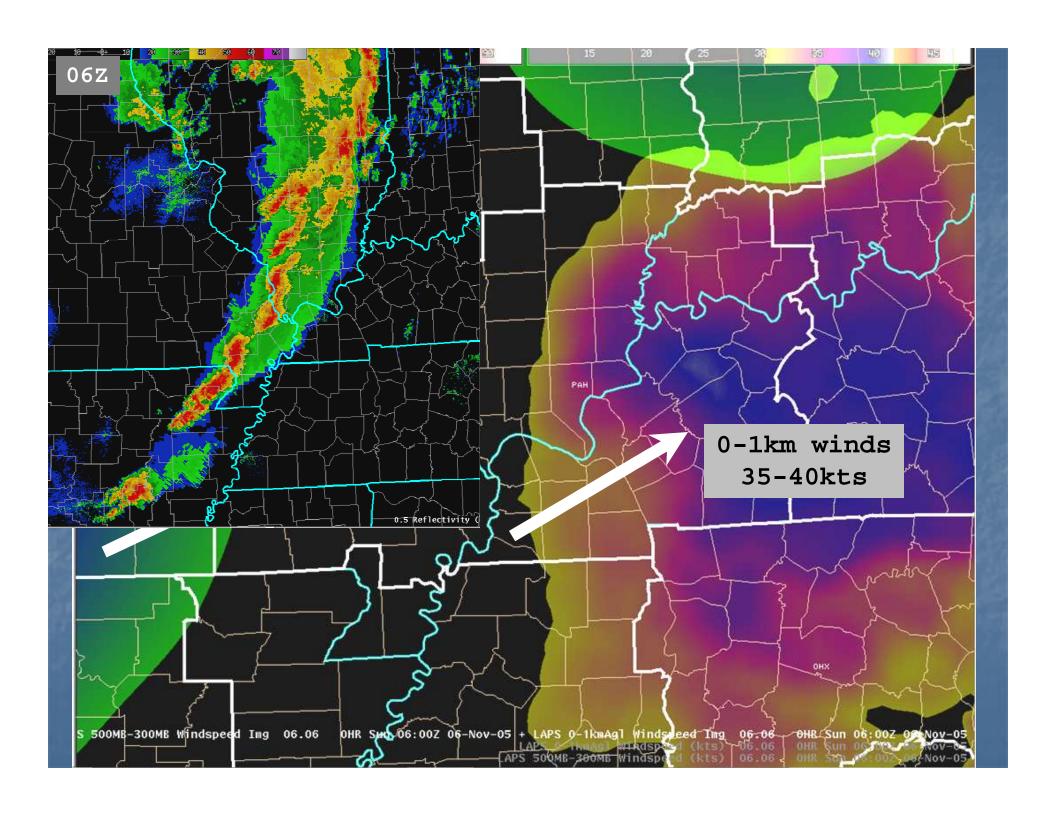


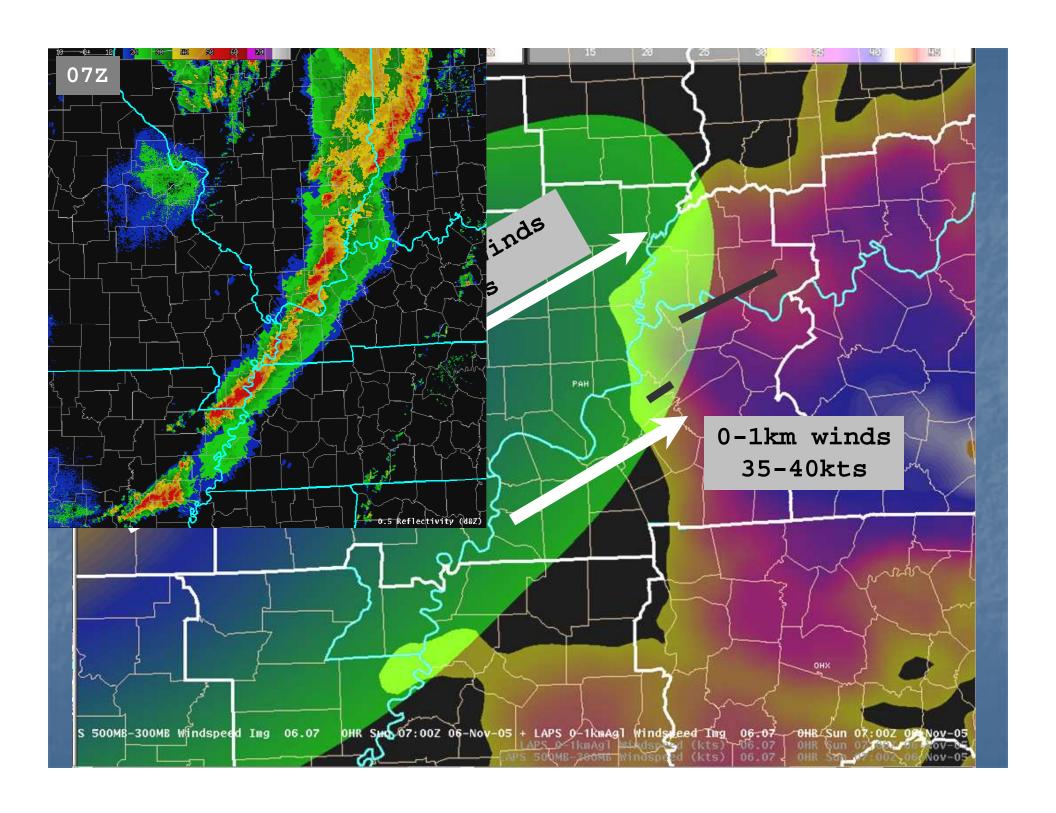


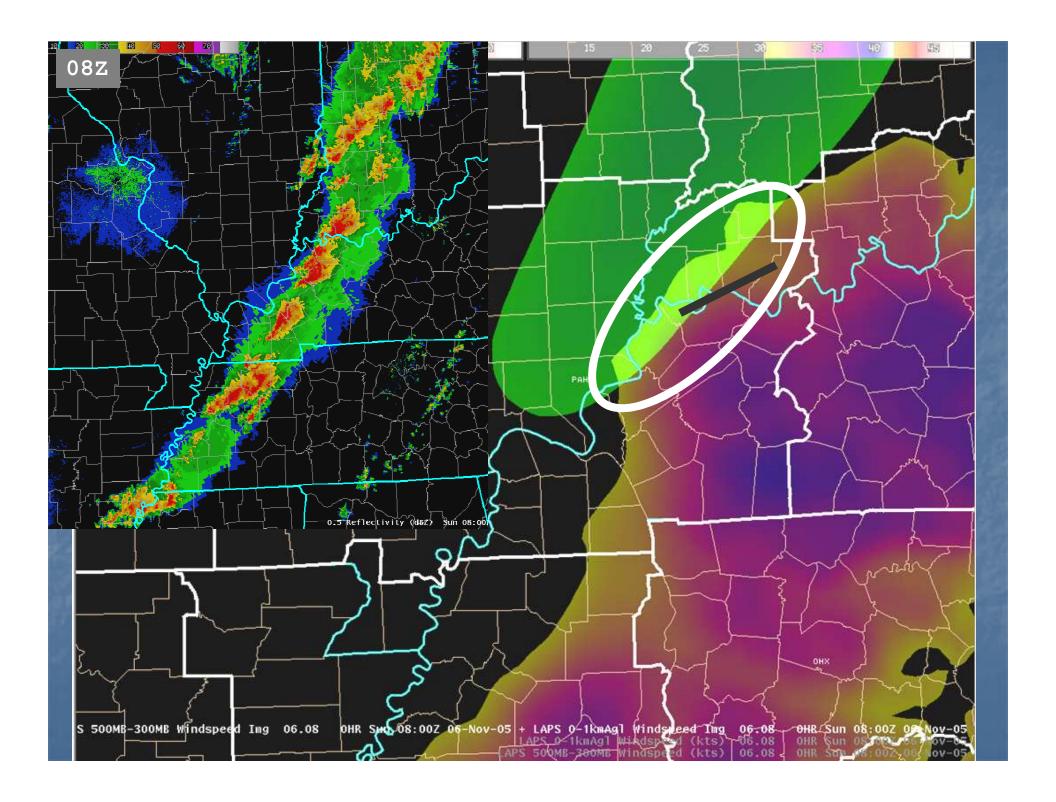
## KVWX: Evansville VAD WIND PROFILER

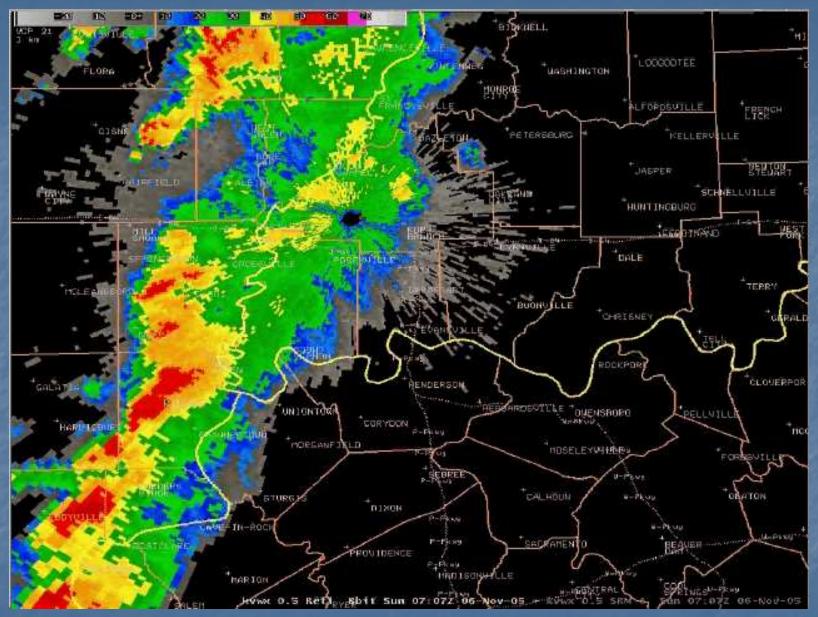




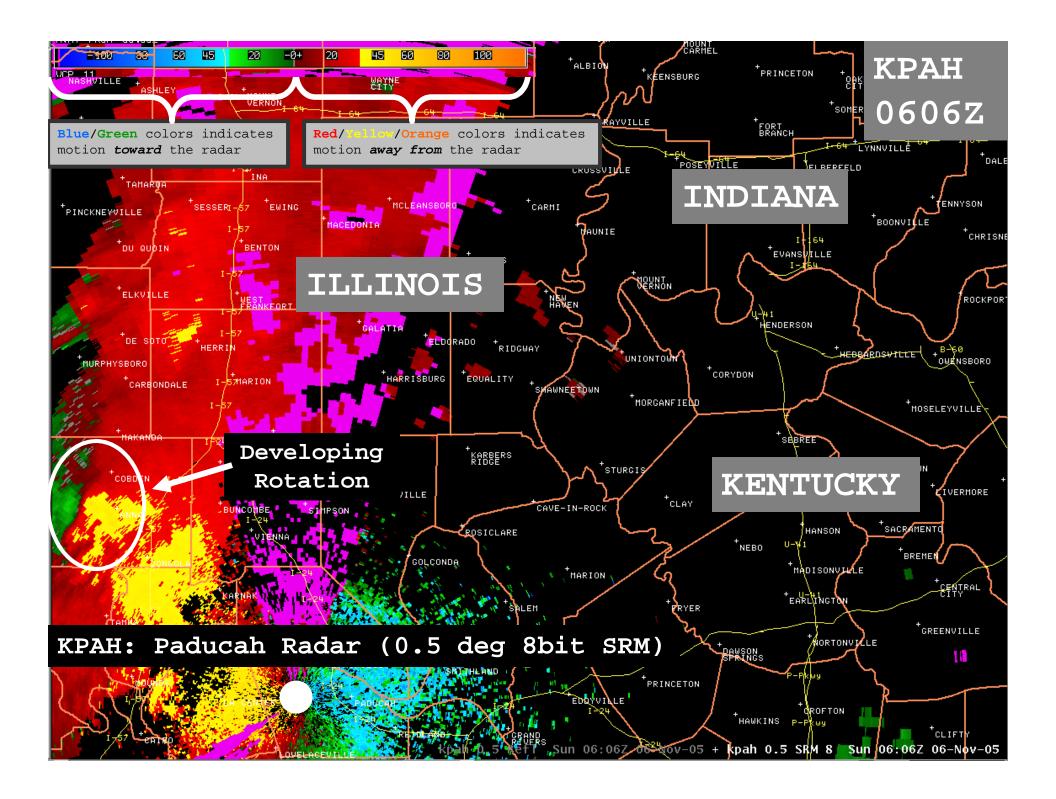


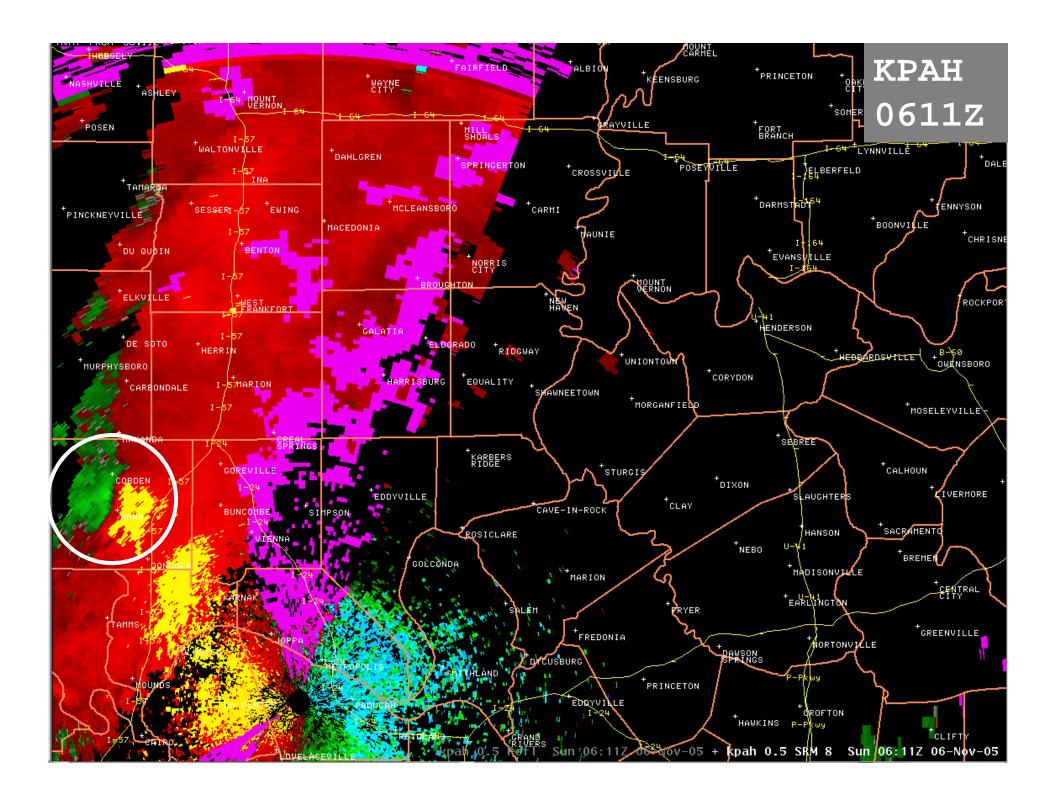


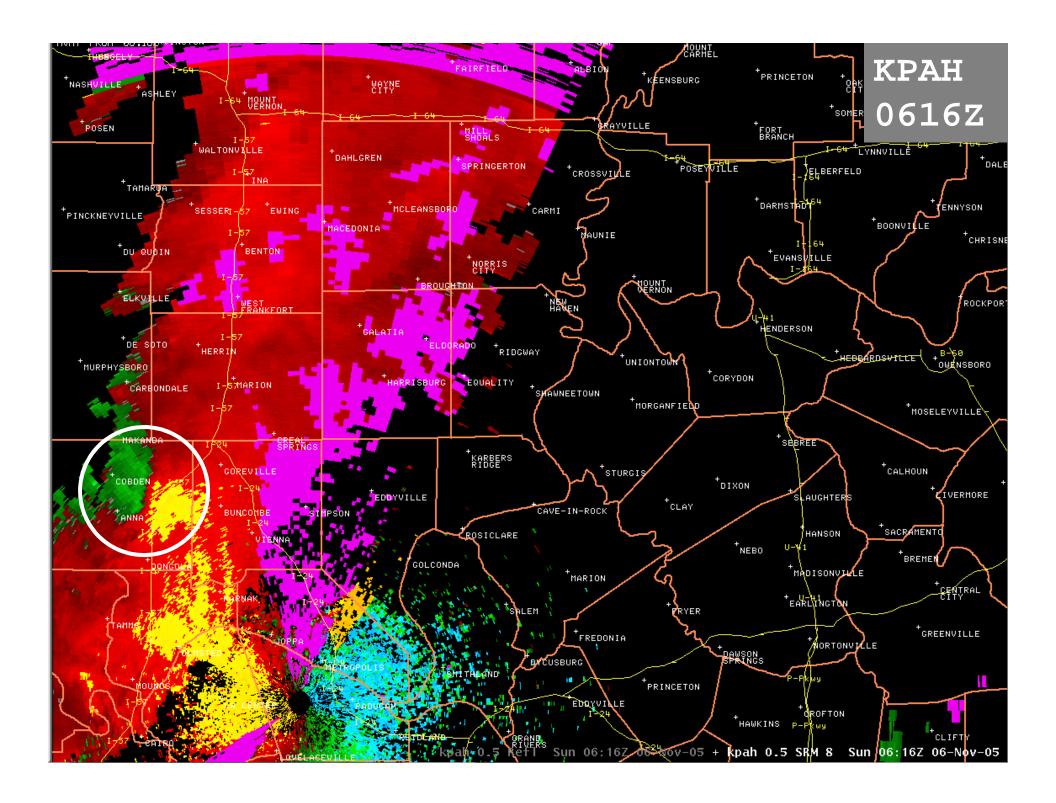


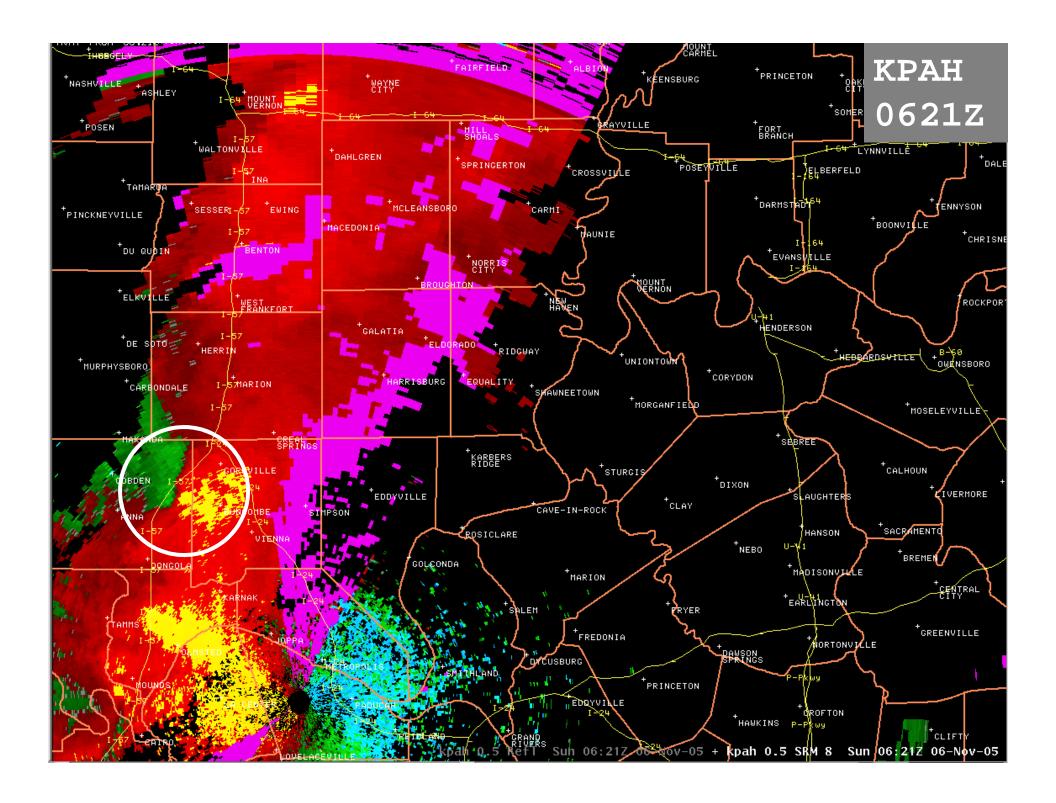


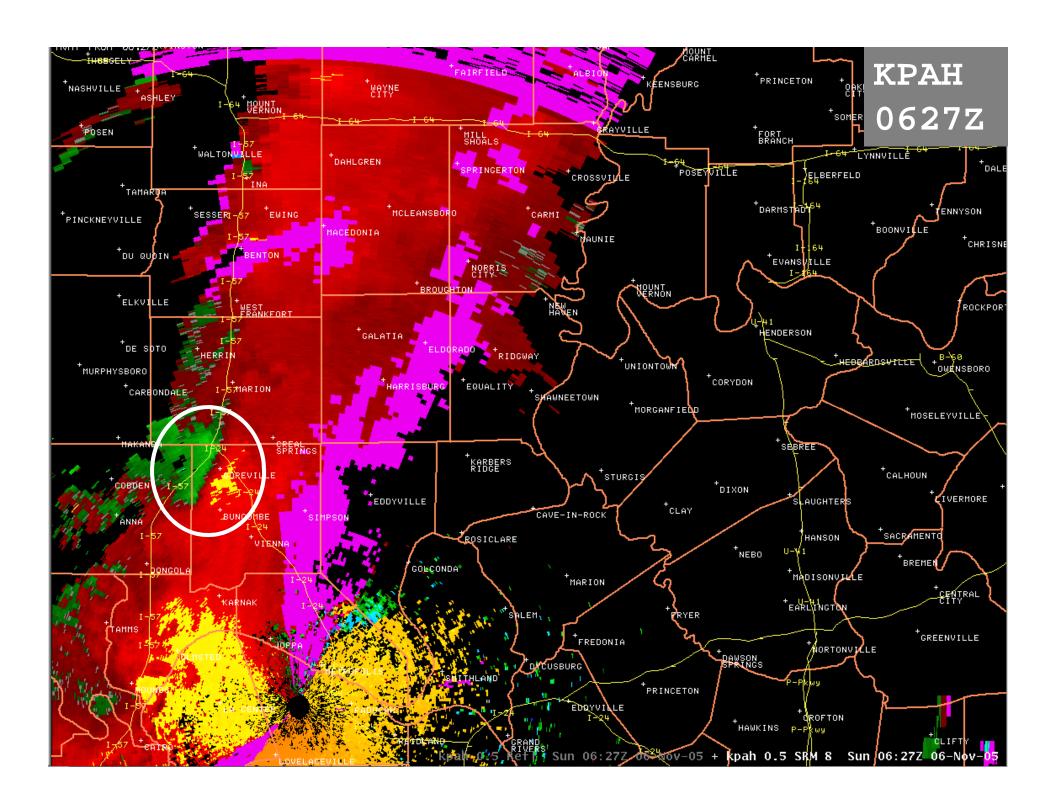
**KVWX 0.5 deg REFLECTIVITY:** 

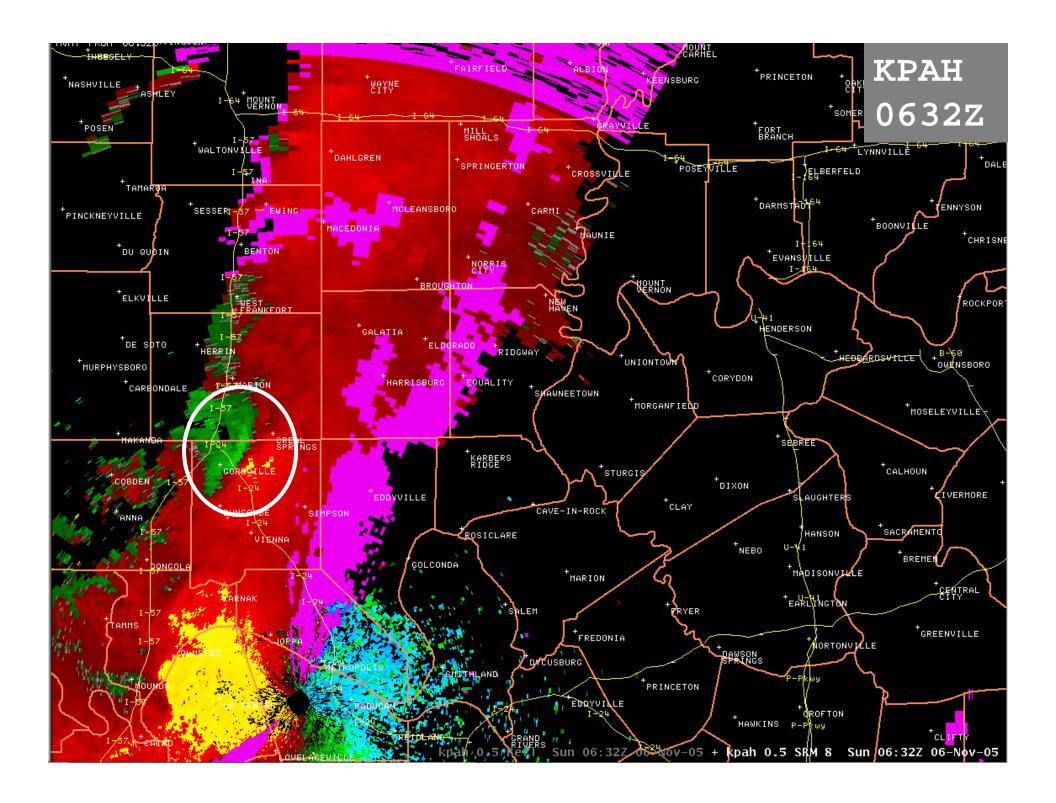


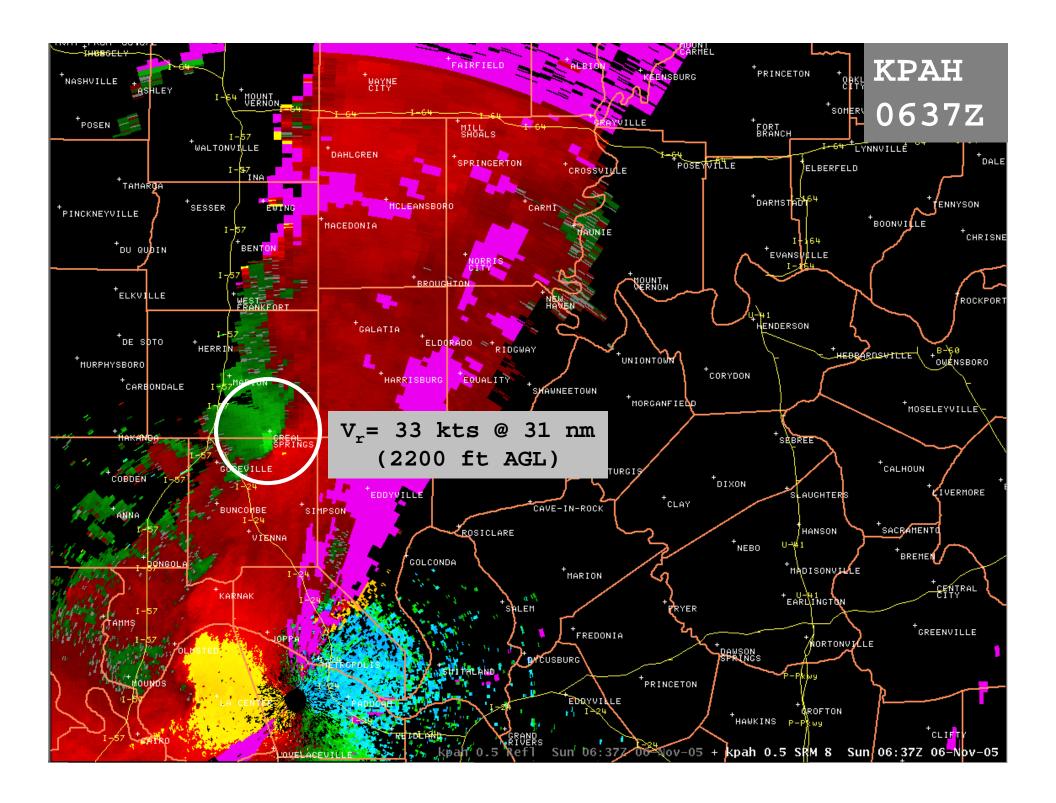


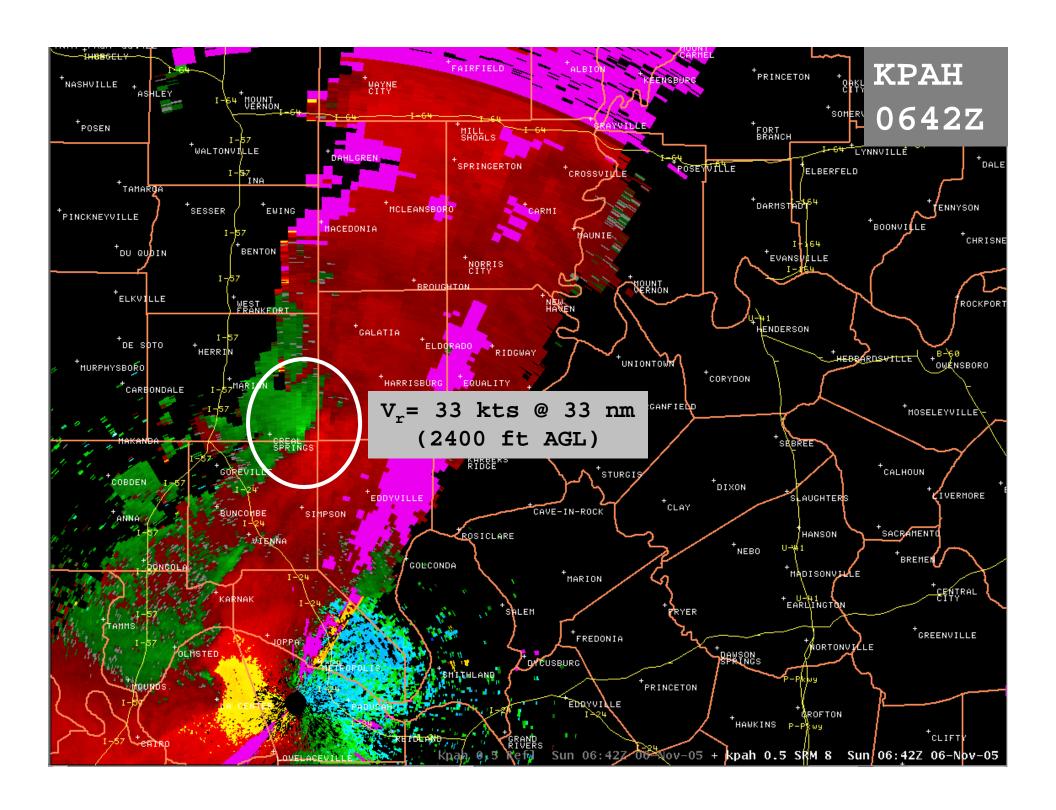


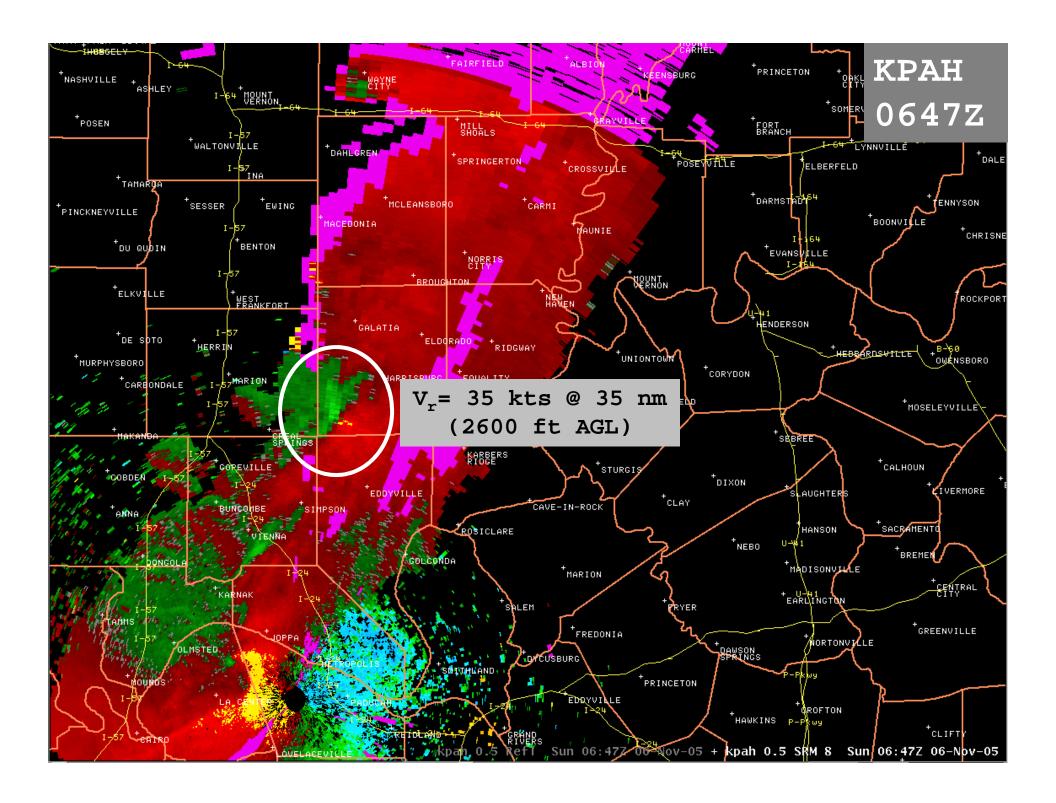


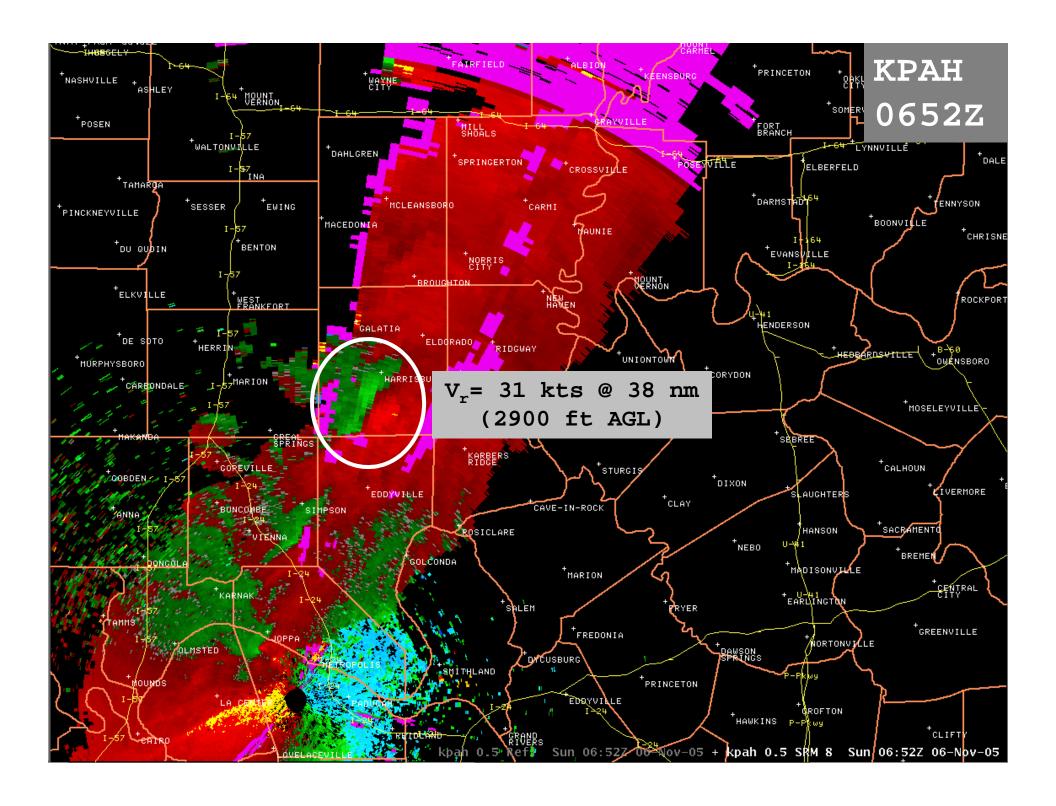


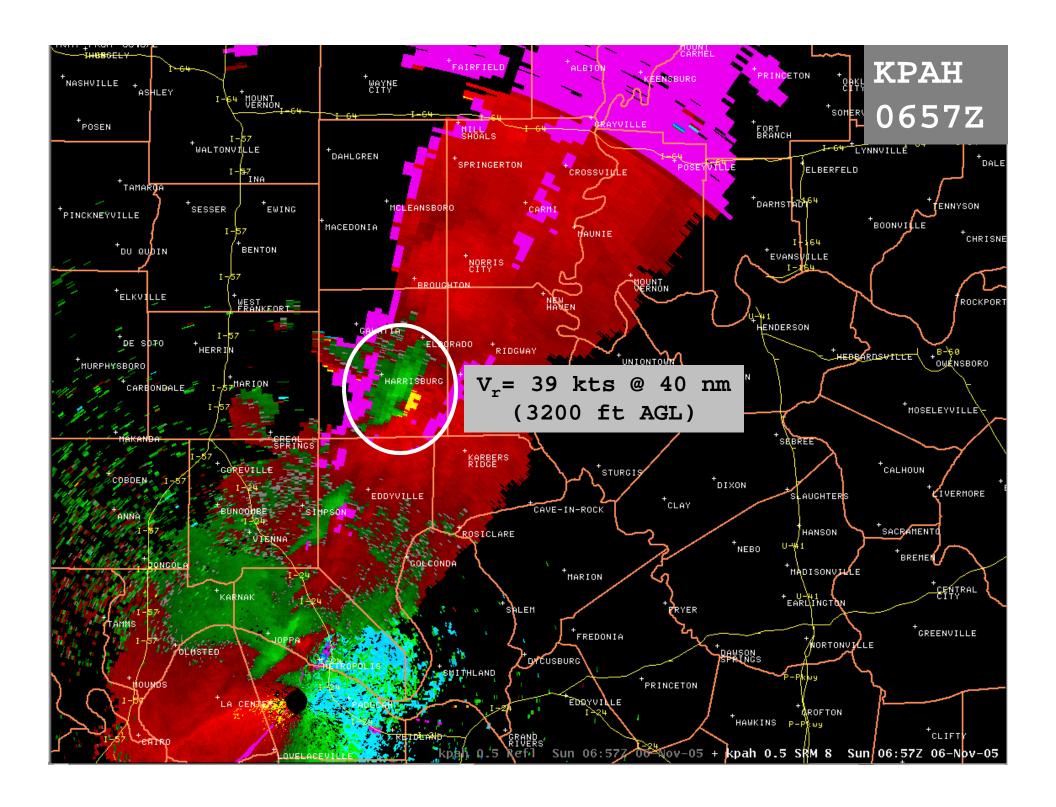


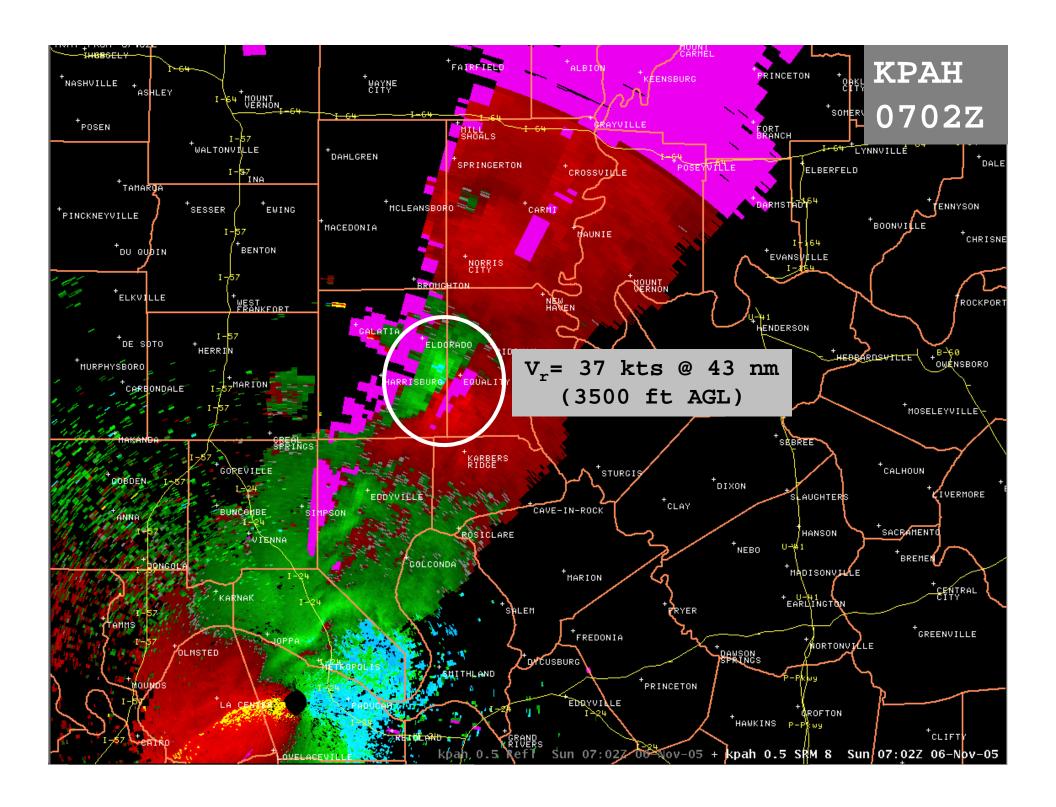


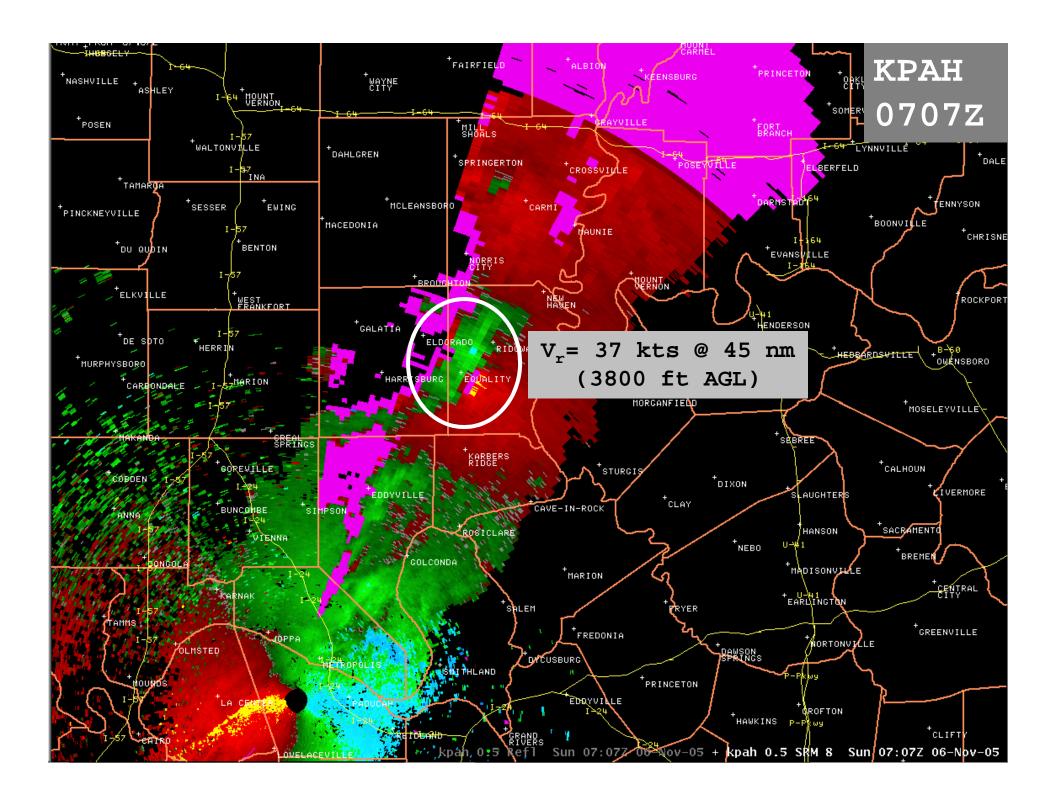


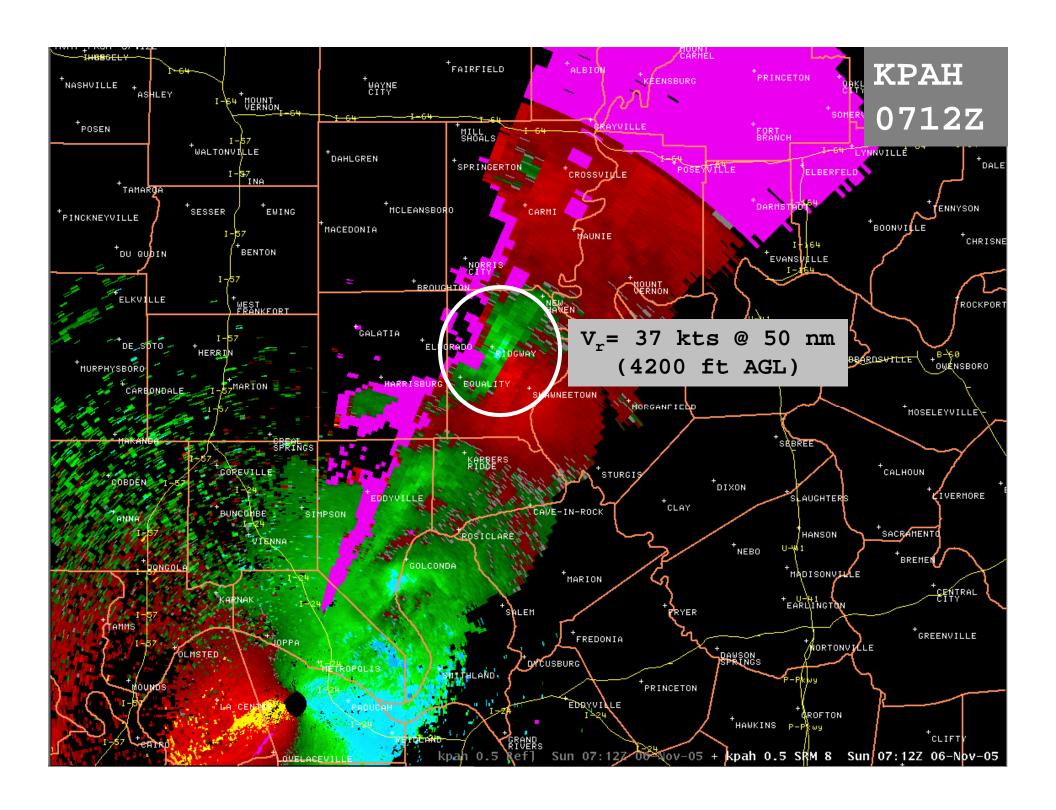


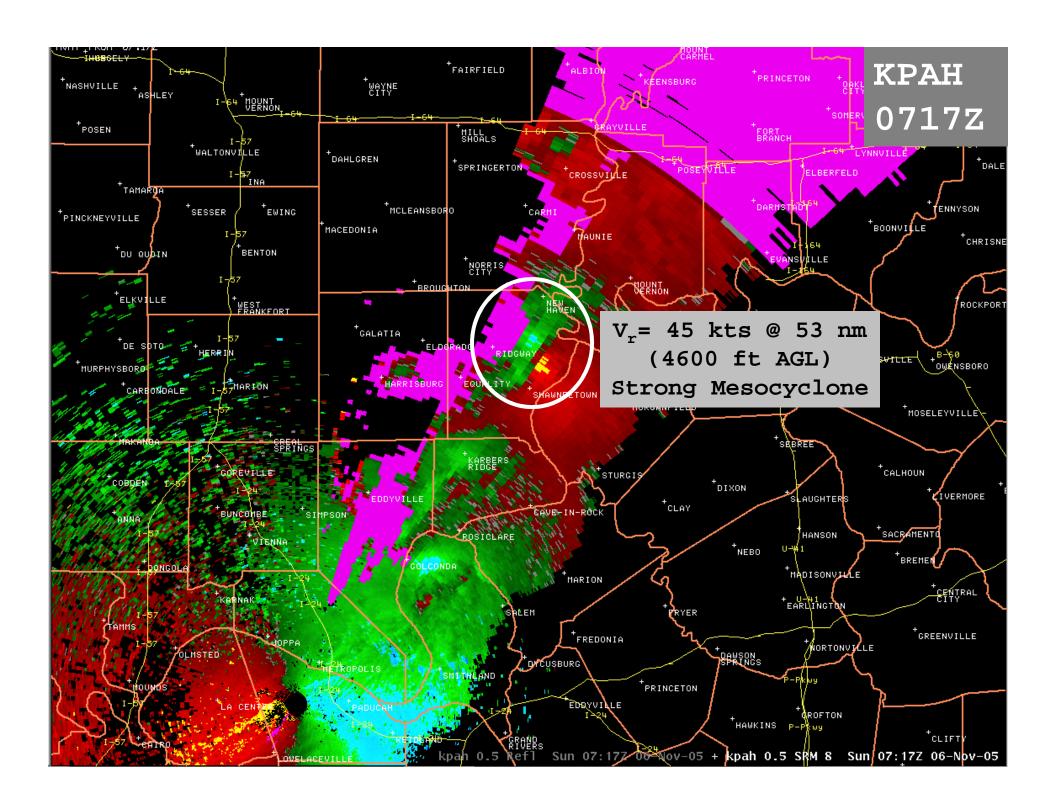


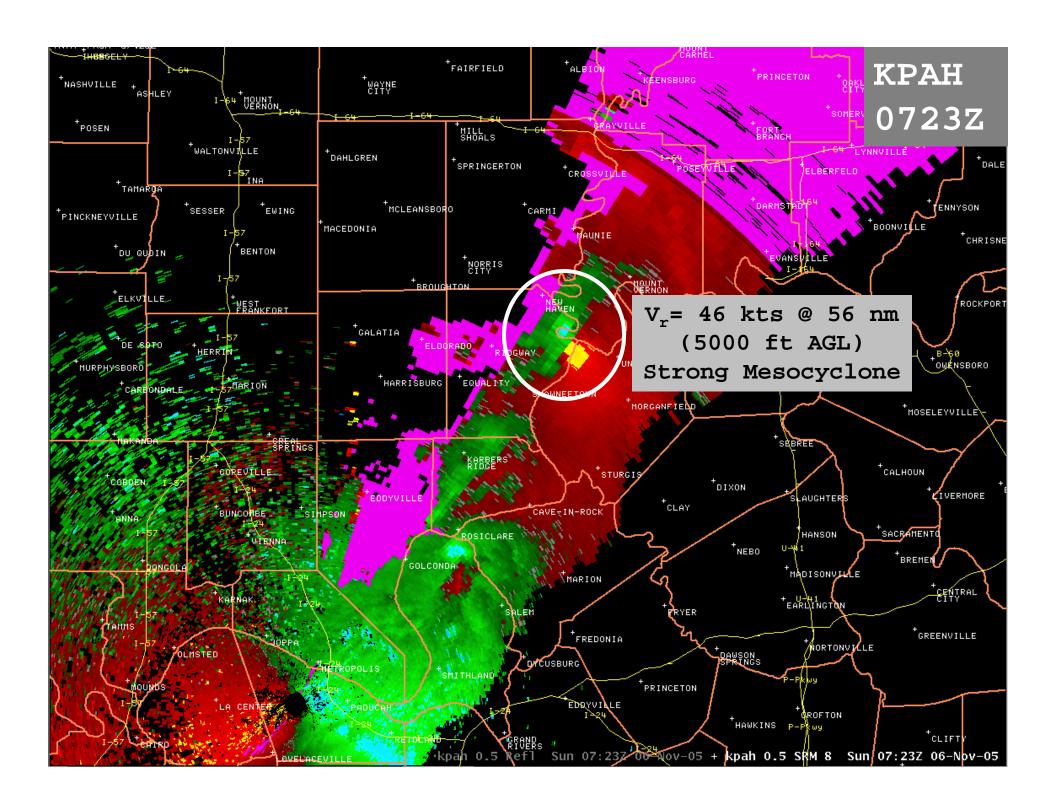


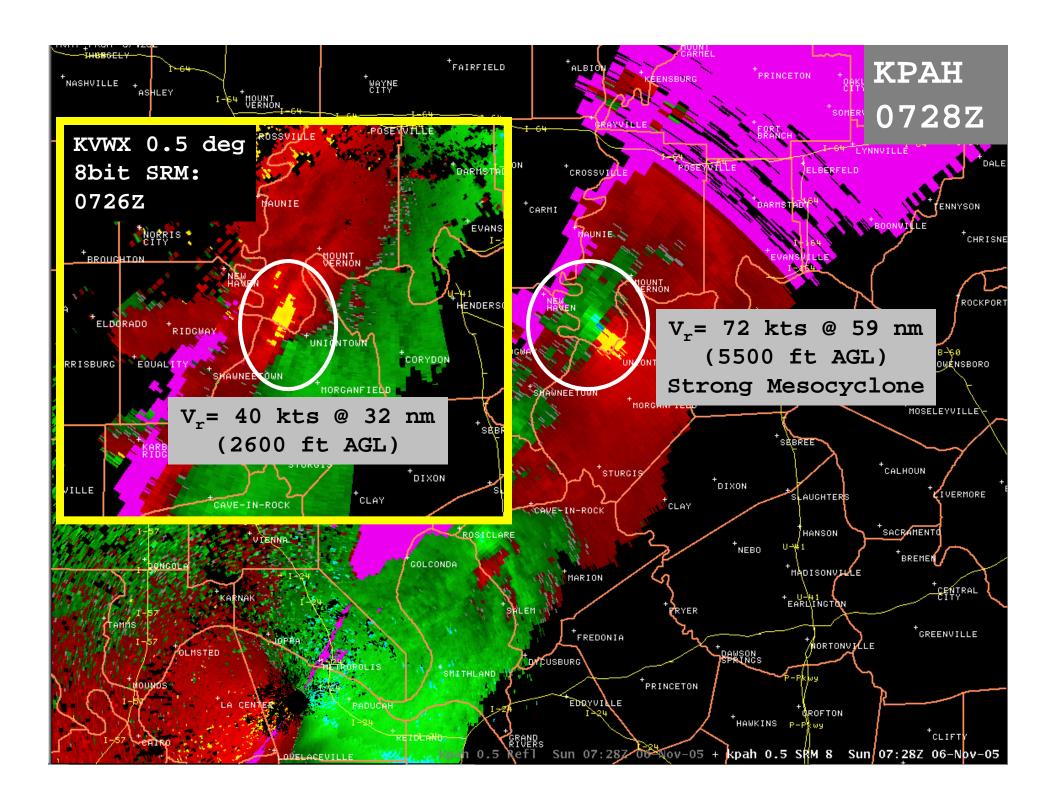


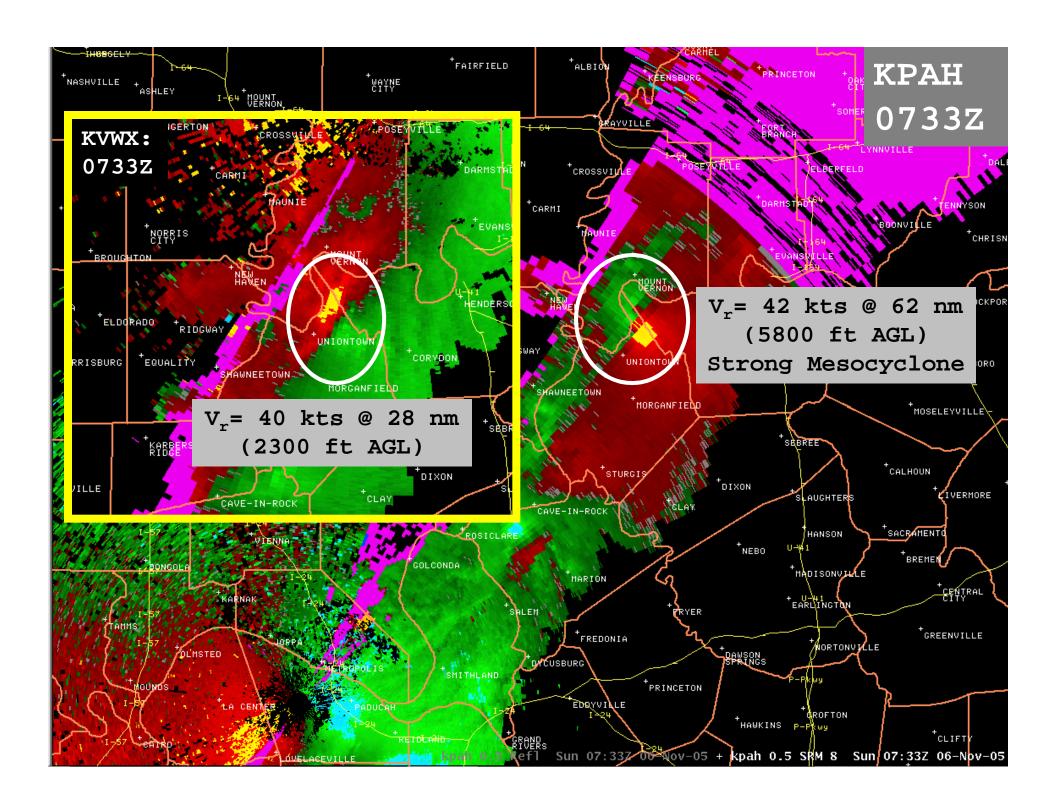


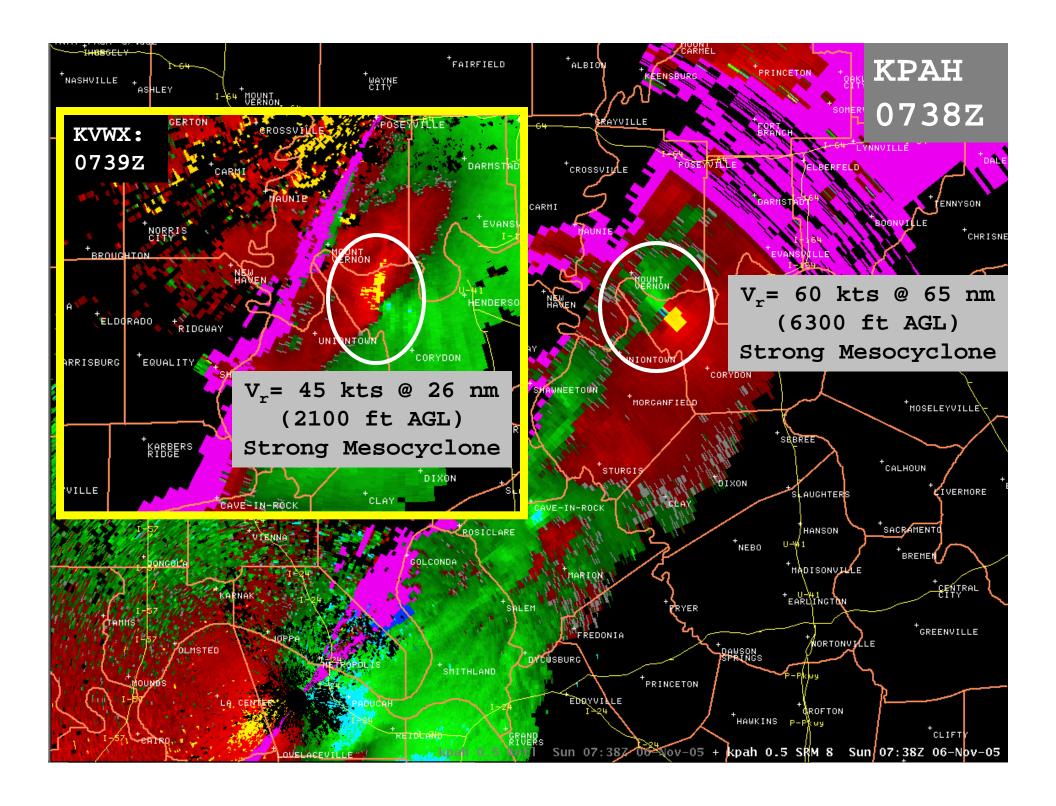


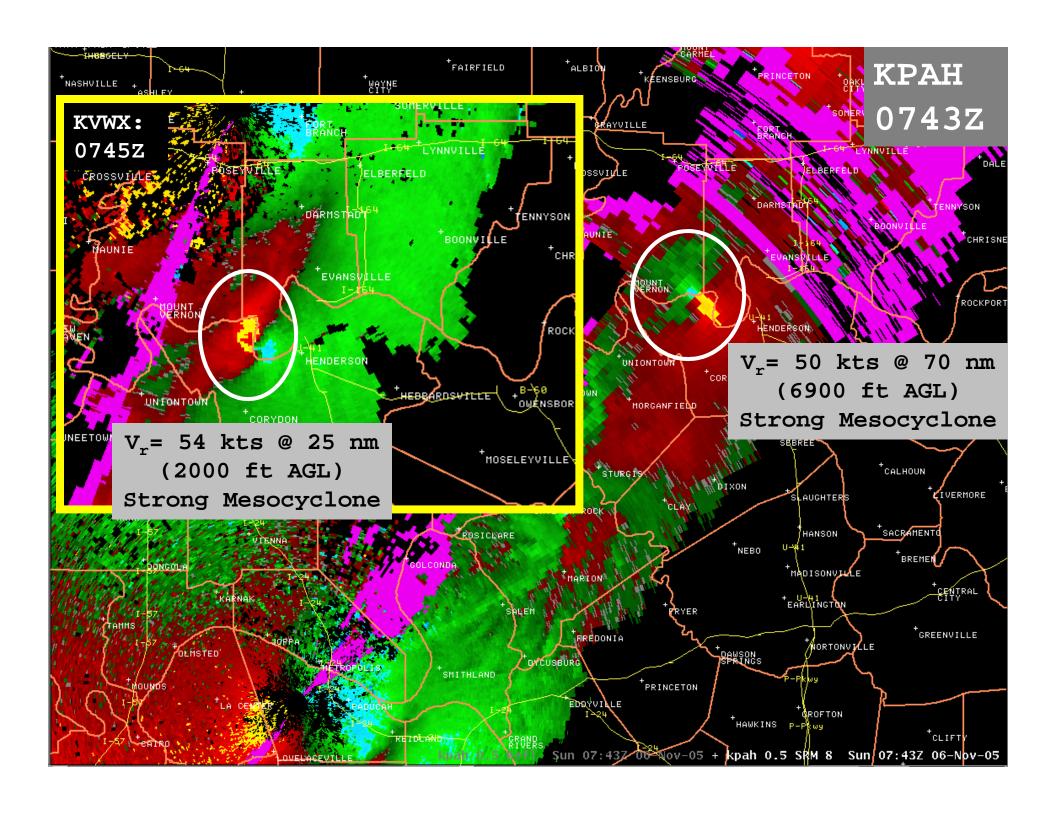


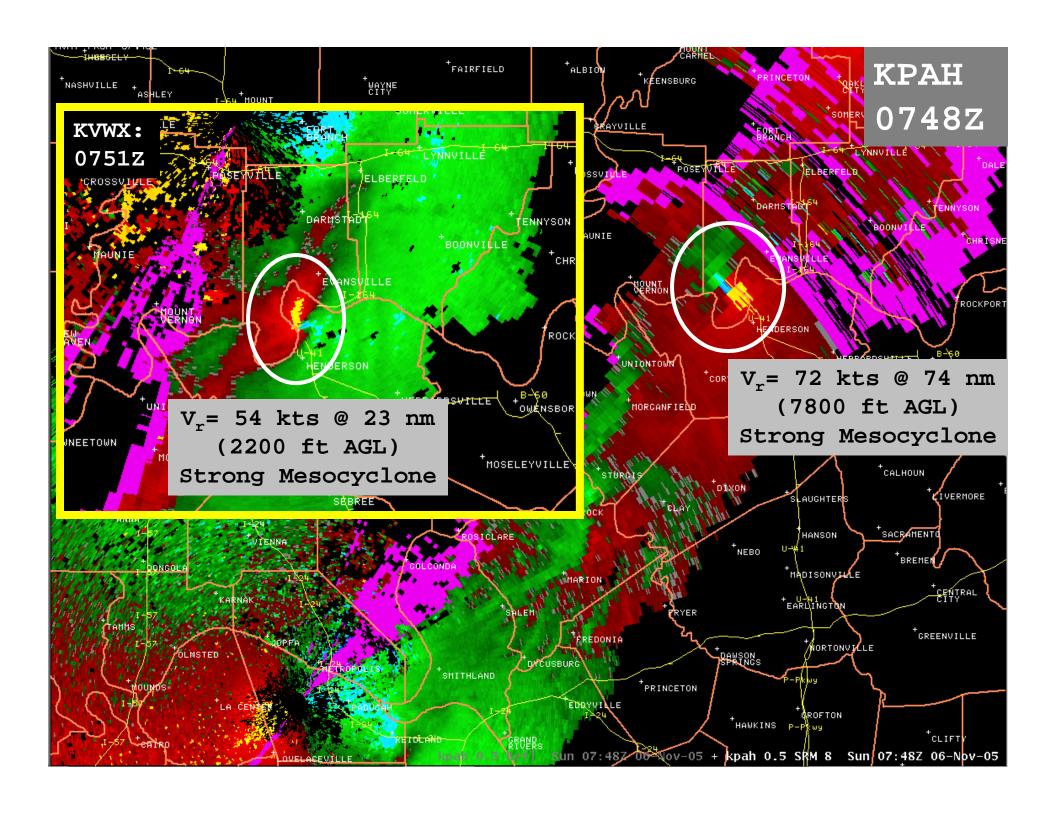


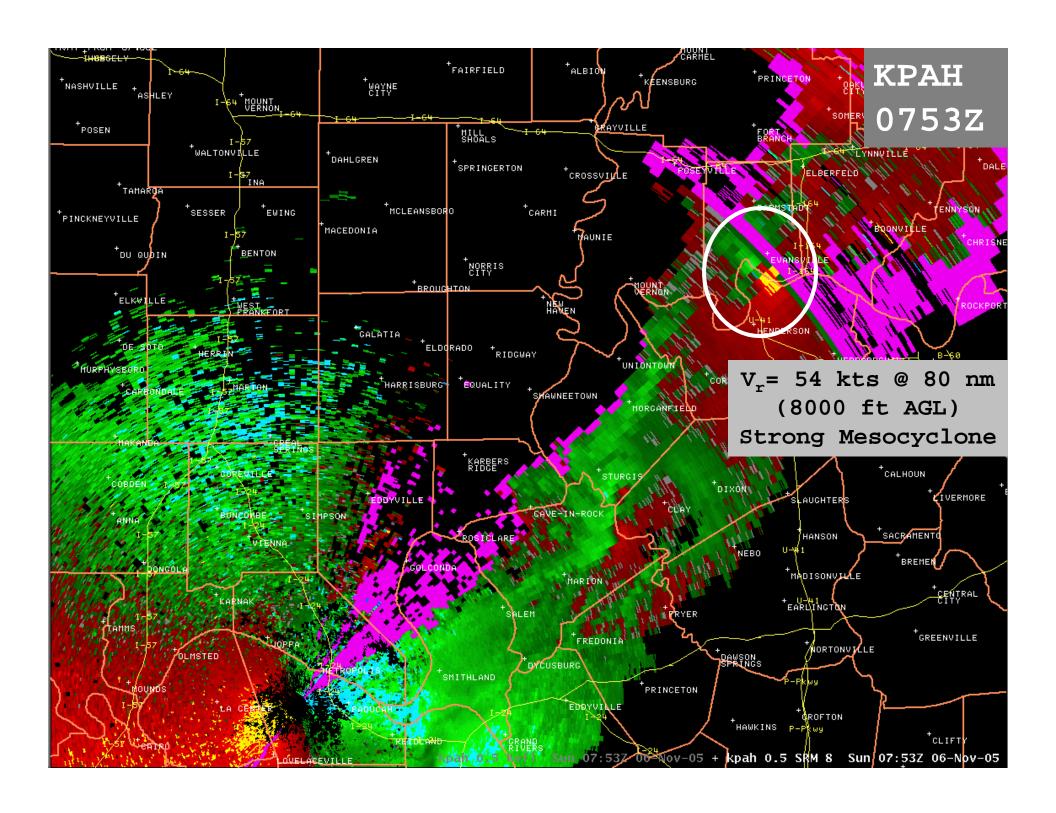


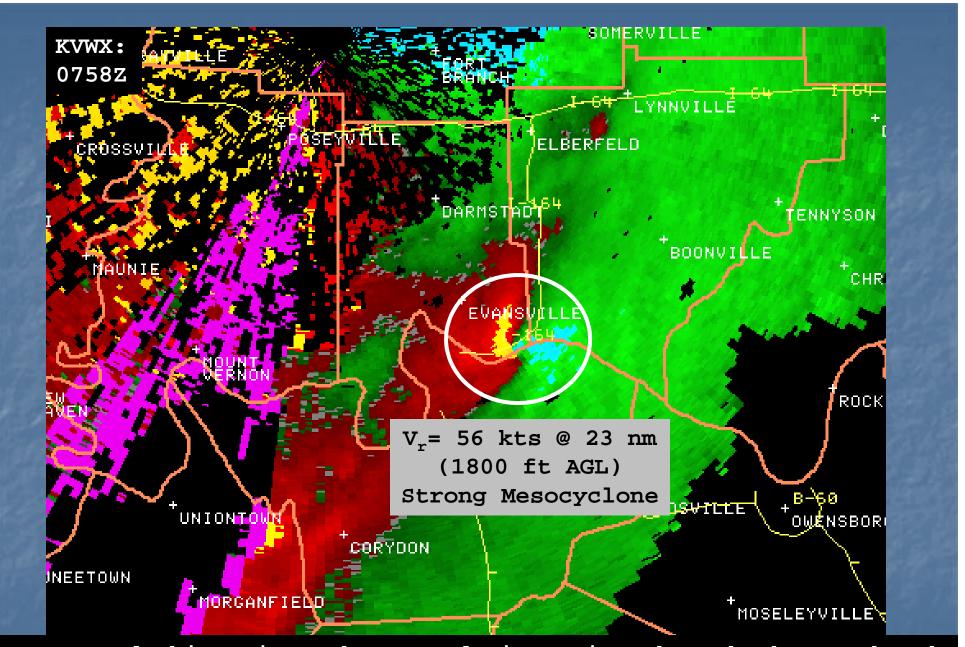




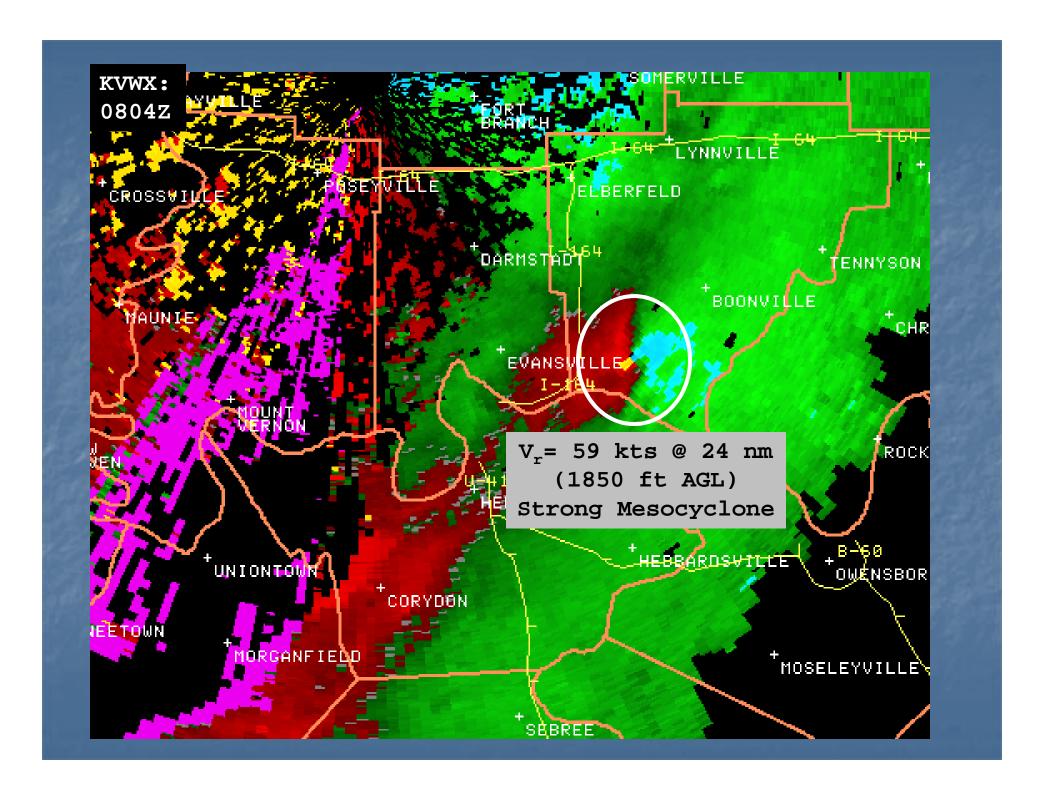


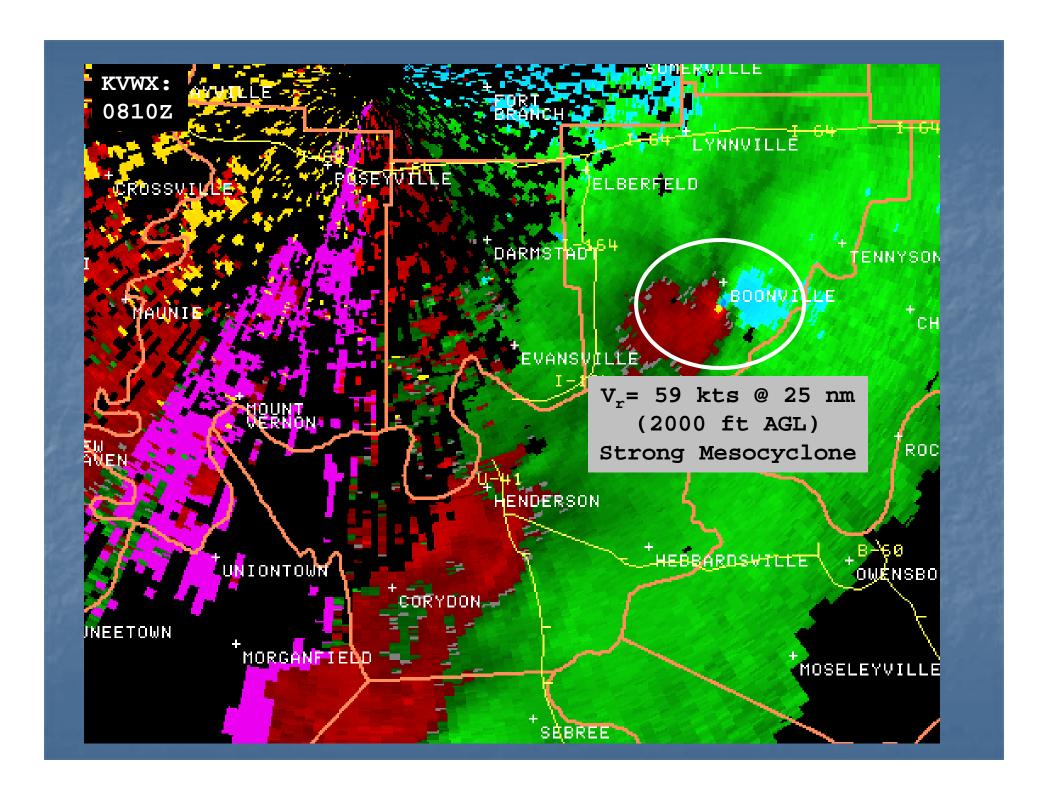


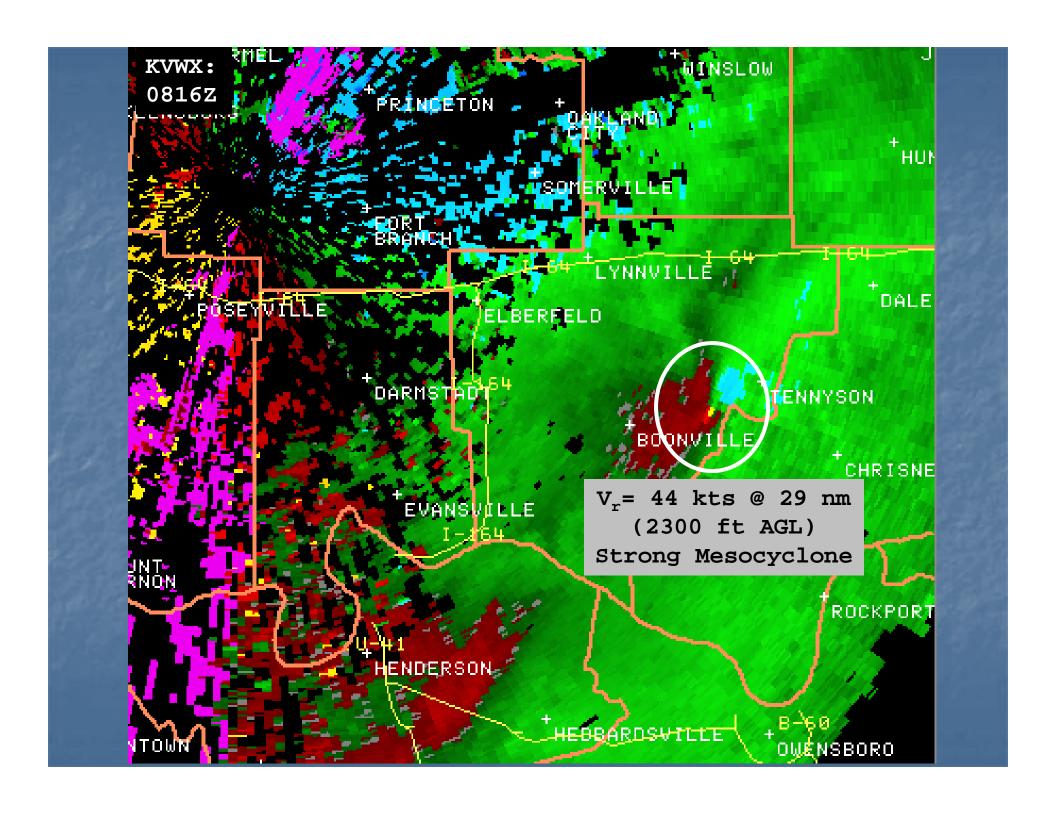


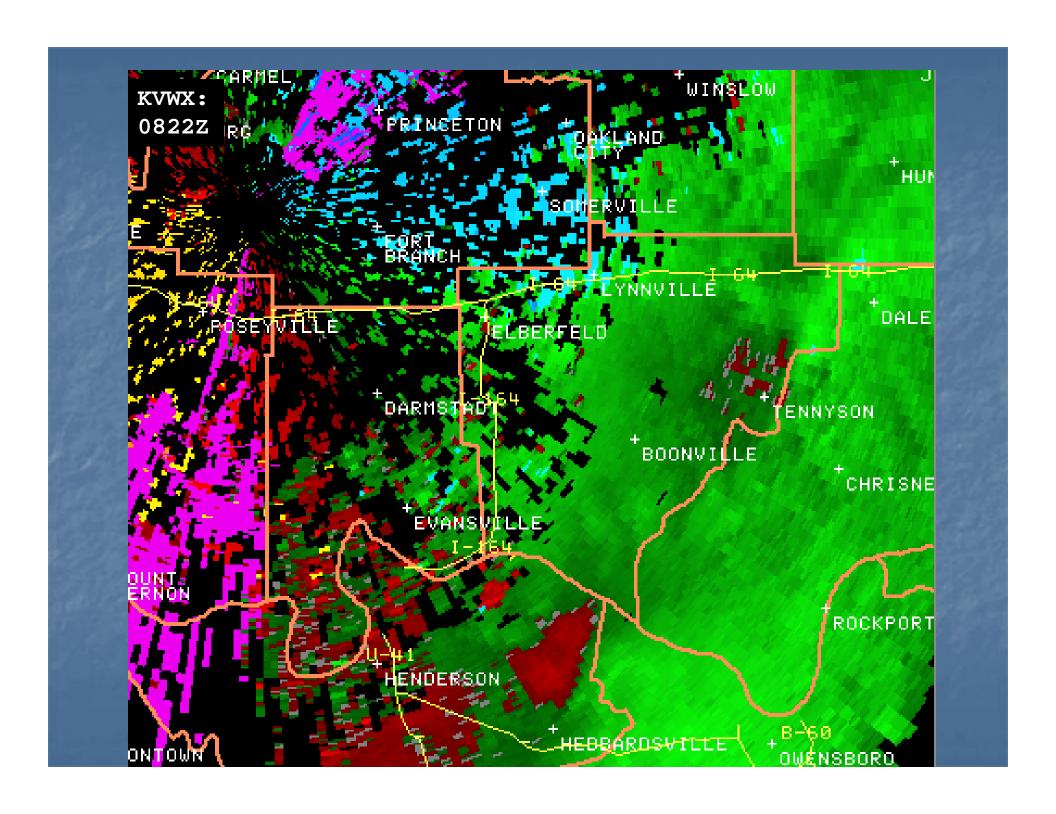


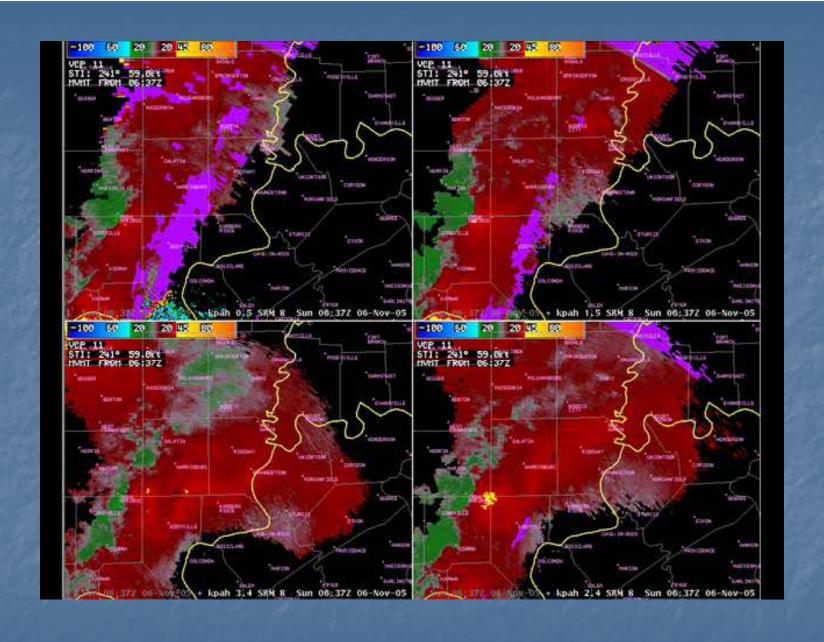
At around this point, the tornado is moving through the Eastbrook Mobile Home Park, where 20 people lost their lives.



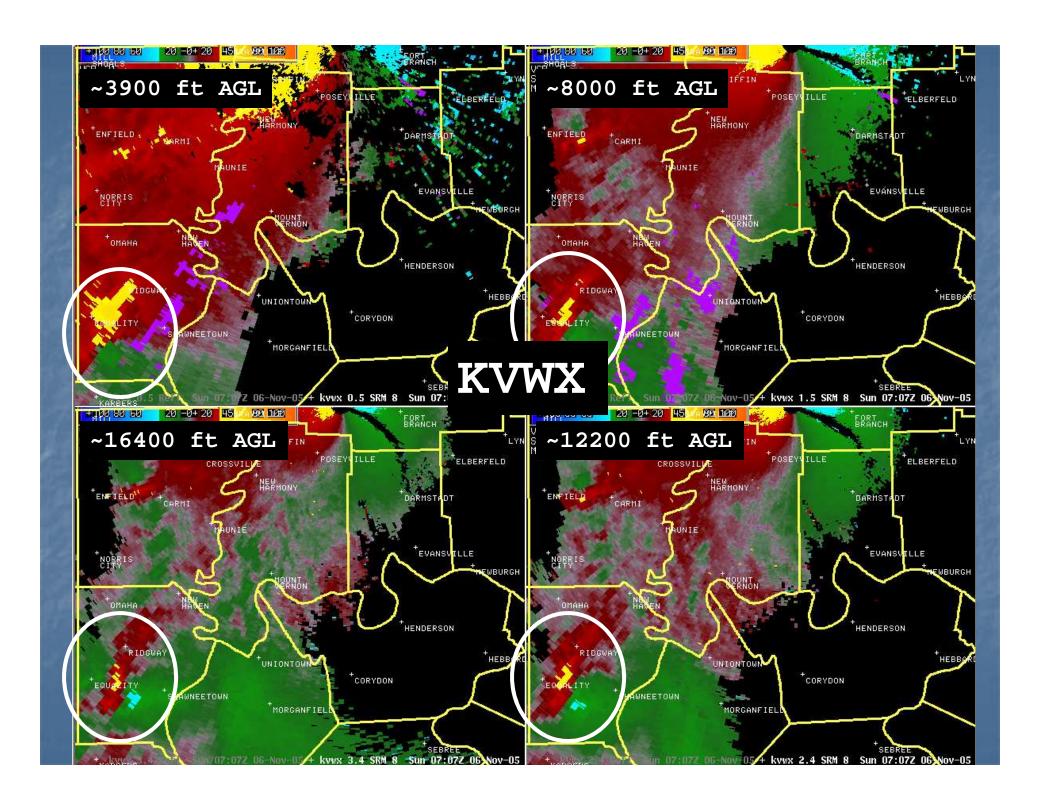


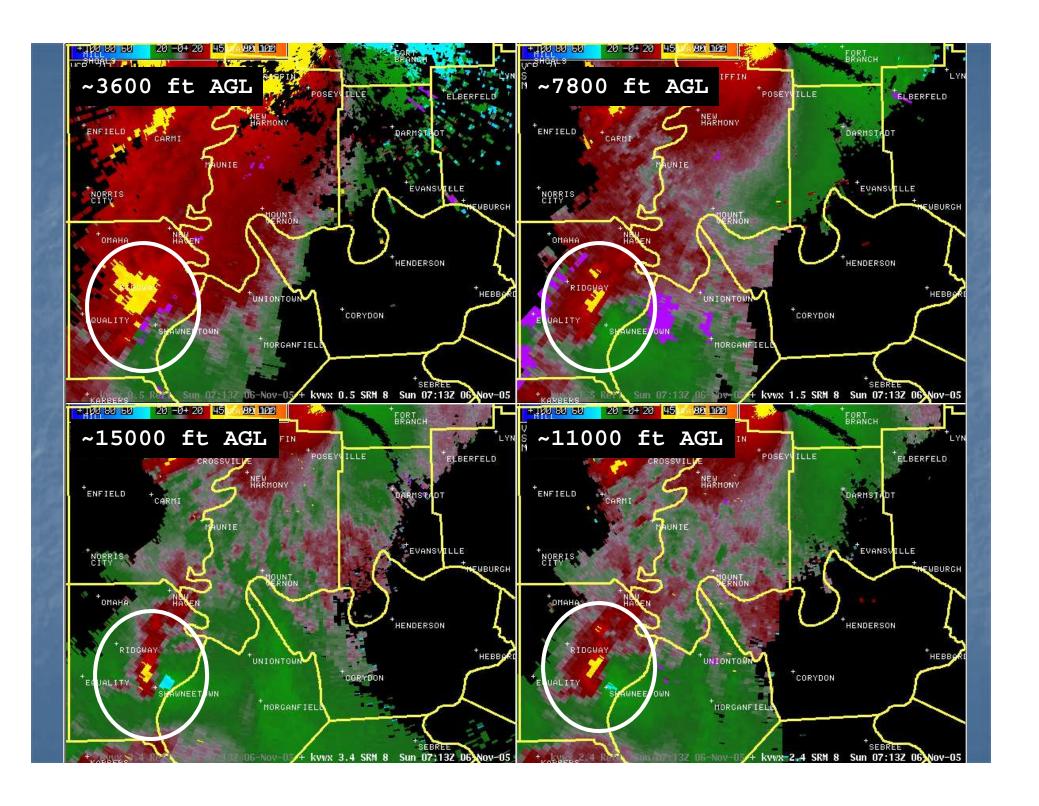


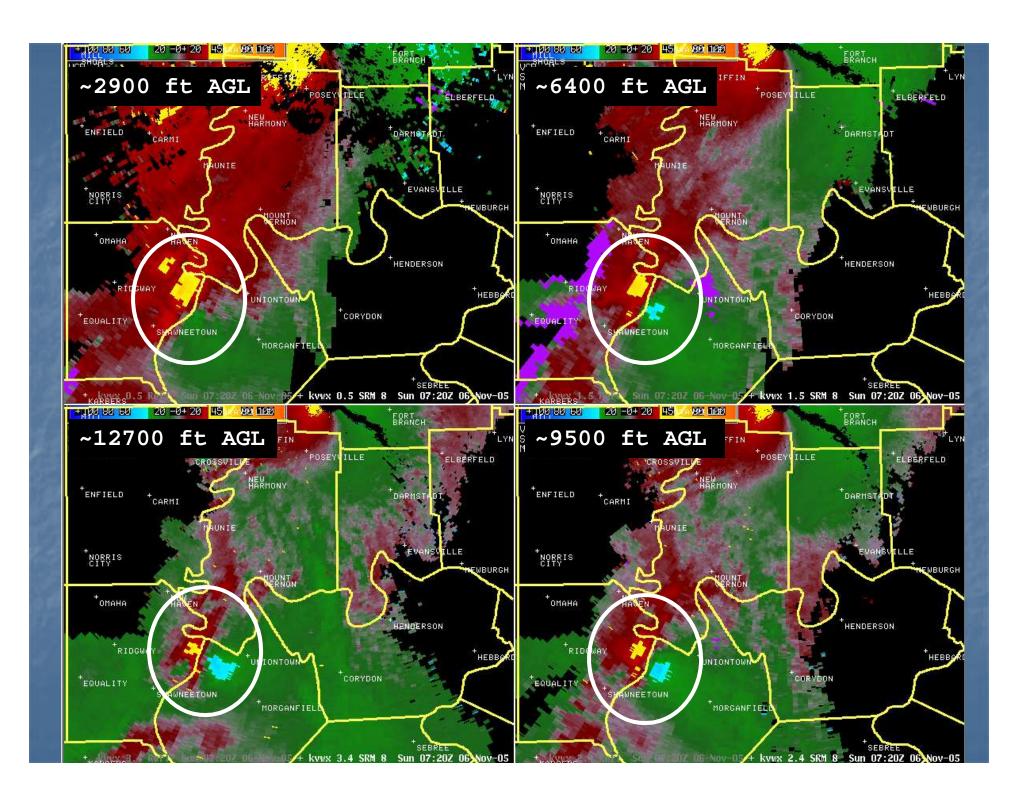


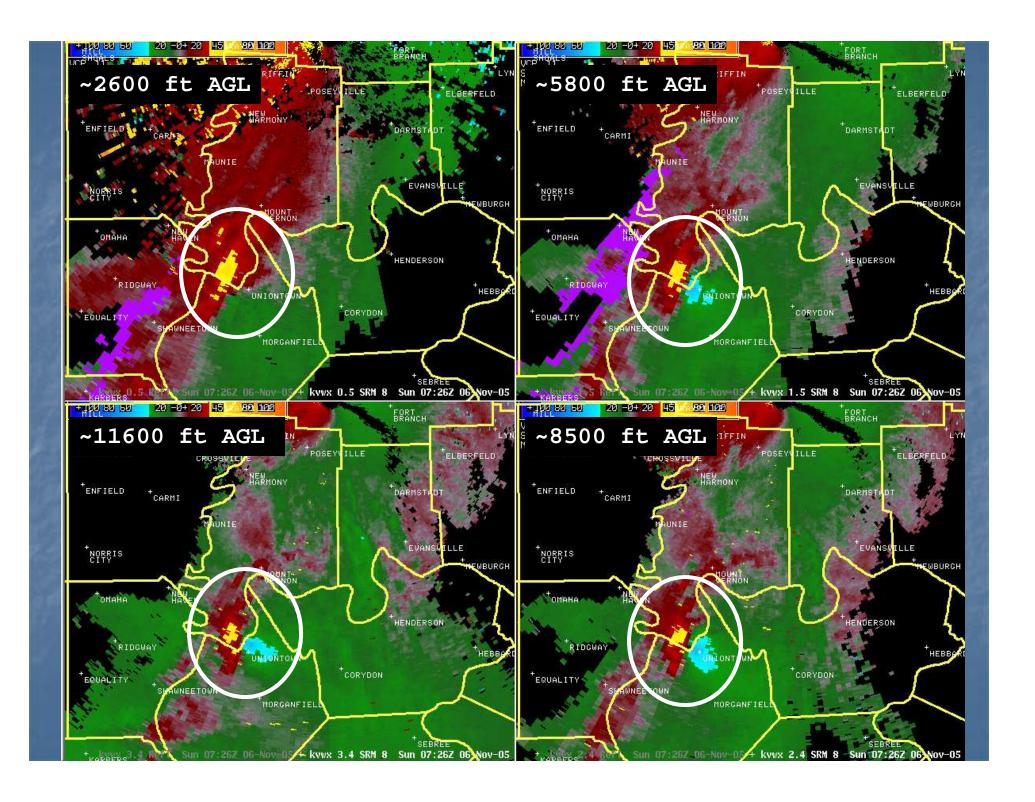


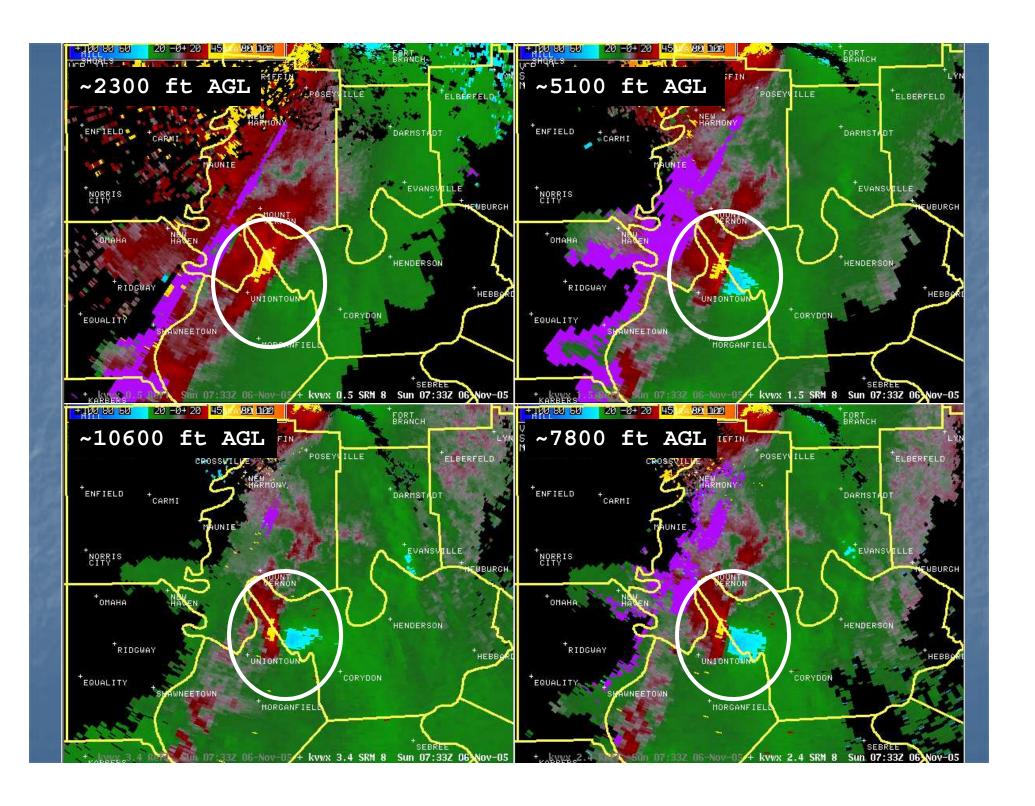
KPAH 4 panel SRM loop

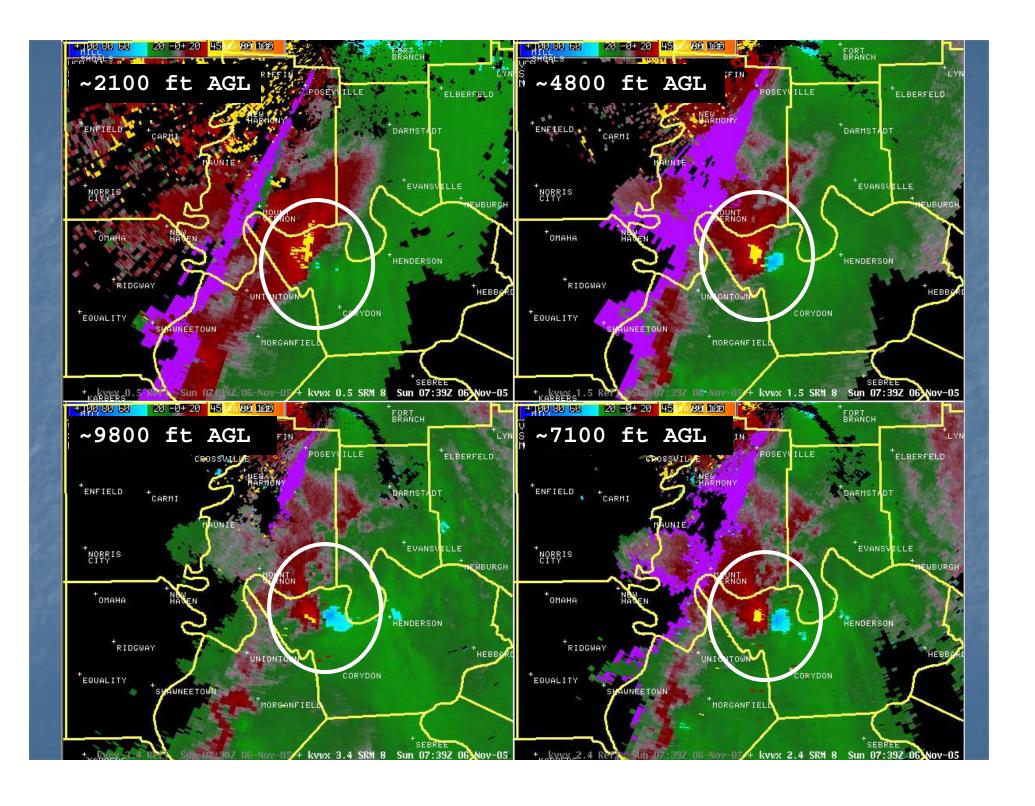


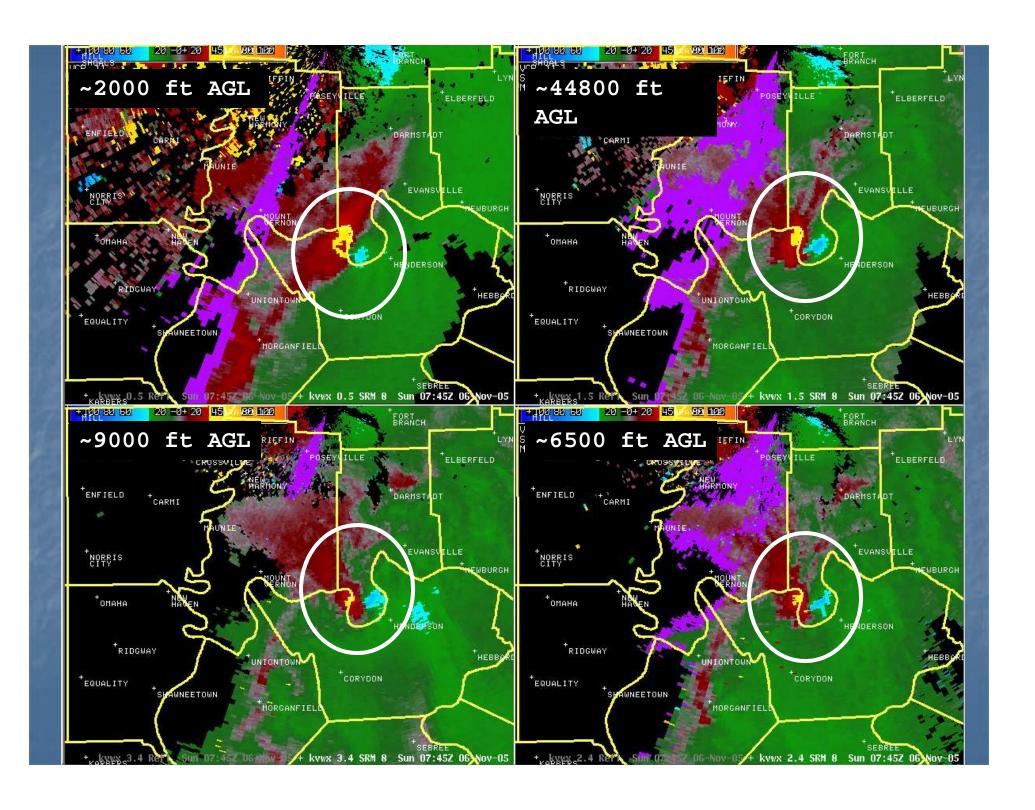


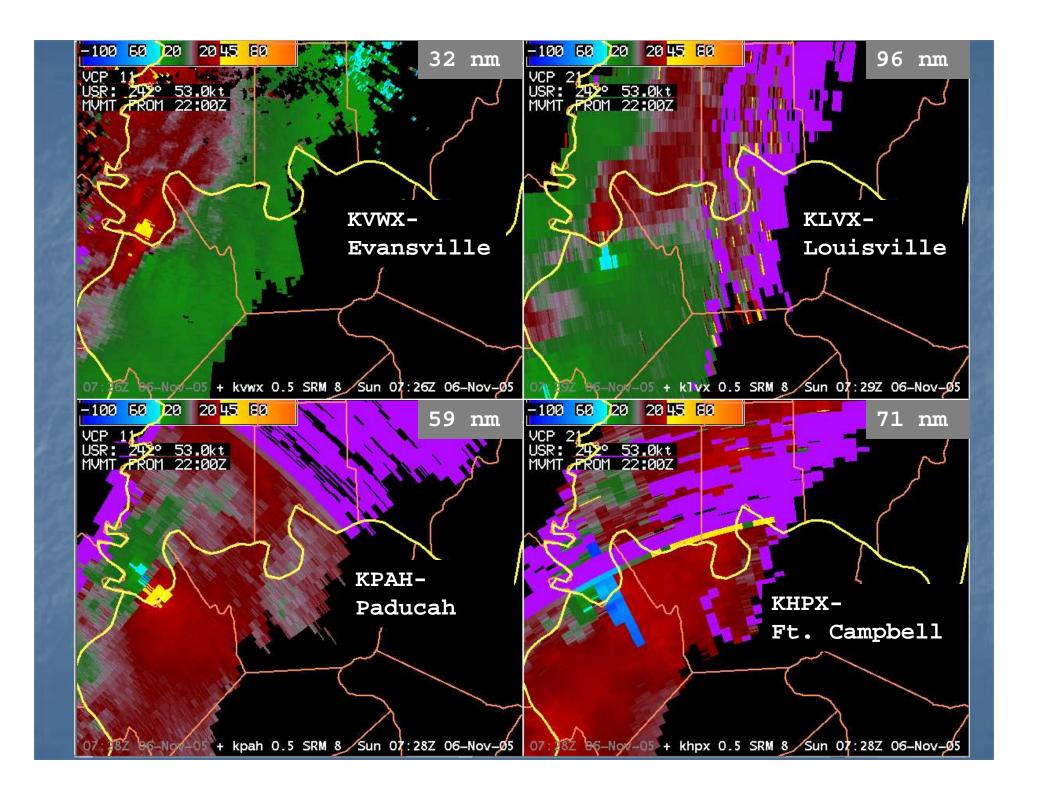


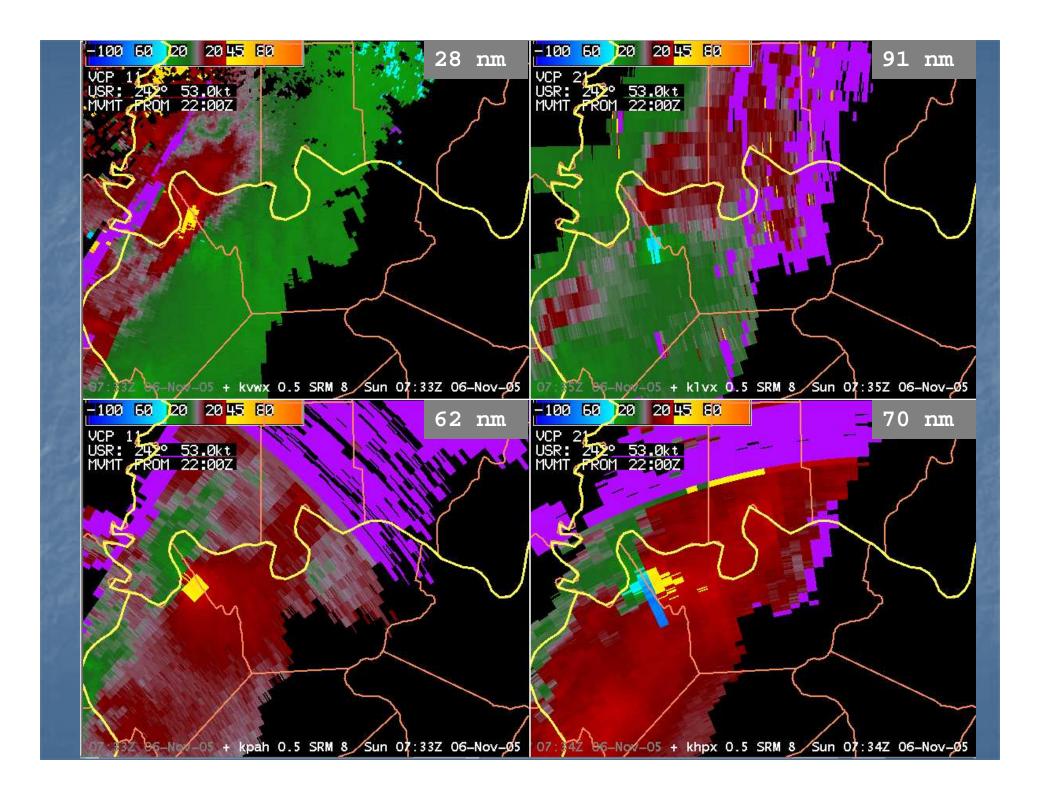


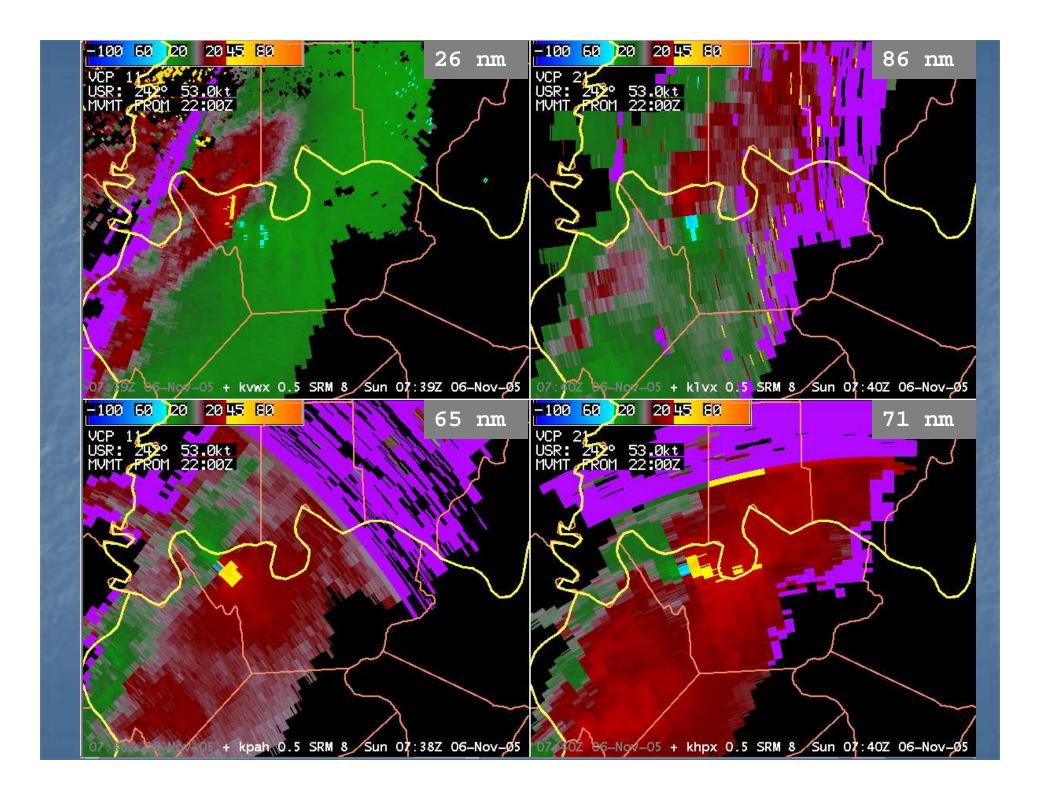


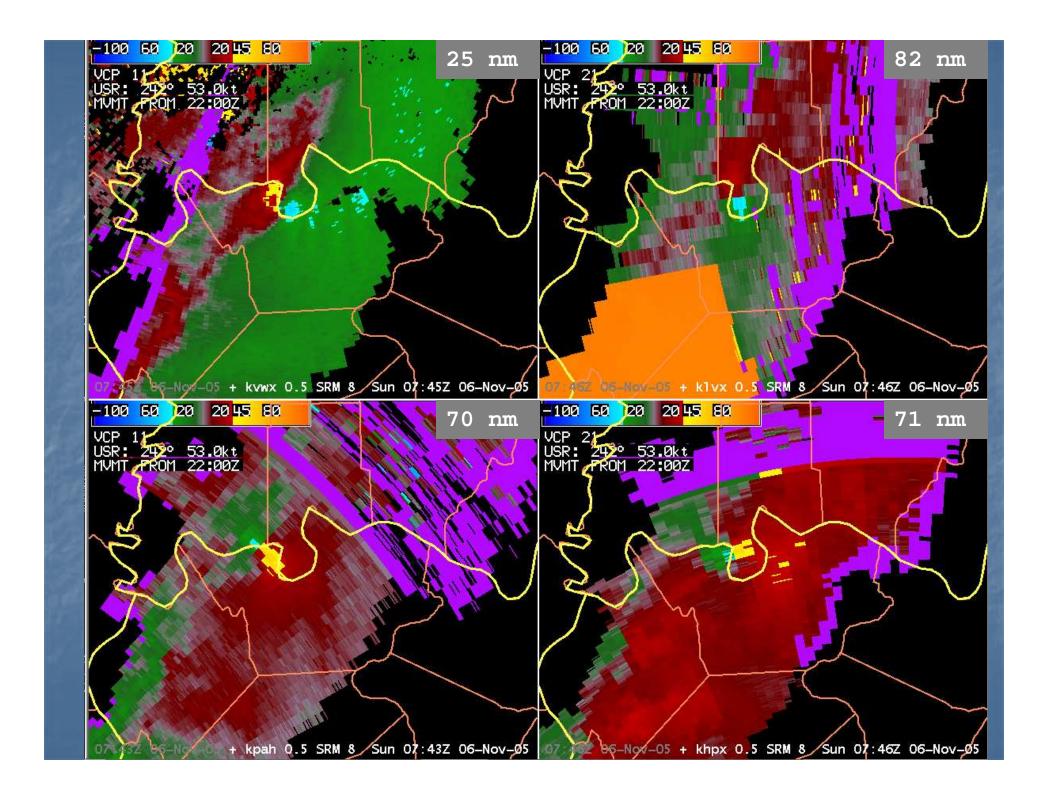


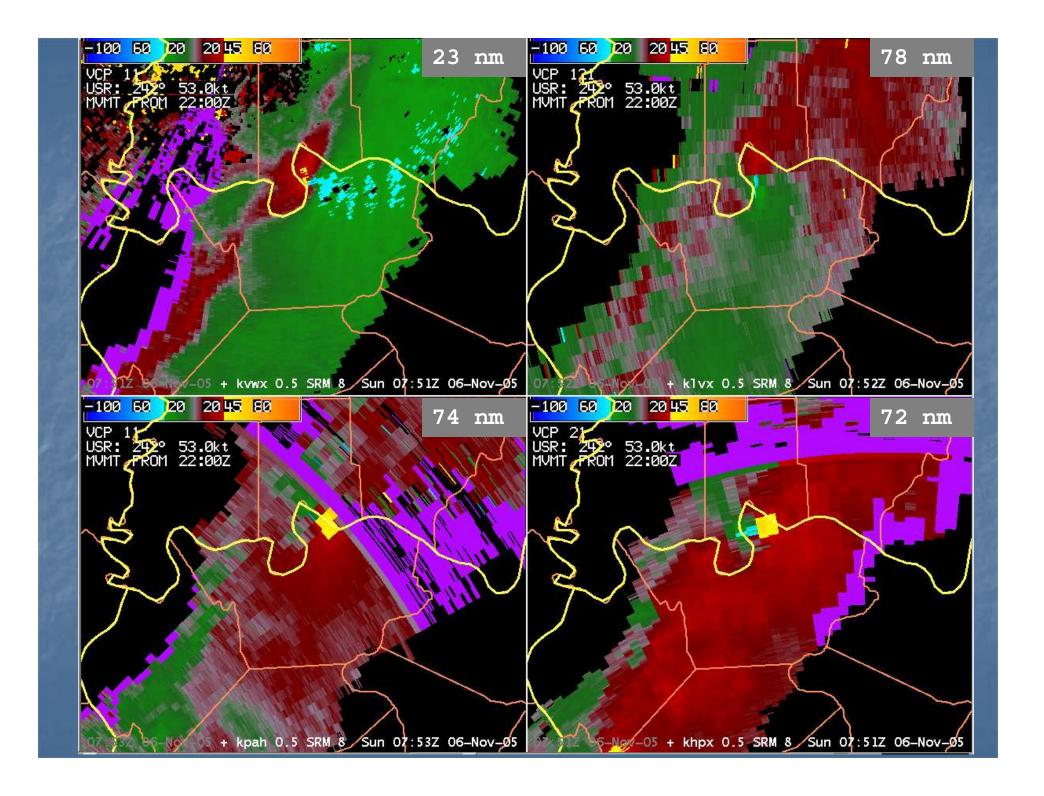












## Some Lessons Learned

- The ability to be open to what could happen, versus what you think will happen could determine your success or failure.
  - Preliminary thoughts were geared mainly toward damaging winds with a squall line.
  - In reality, clusters of supercells spawned tornadoes.
- Many parameters pointed towards western Kentucky as the main area of concern.
  - Someday, we may find or determine the right combination of parameters to help us have a more accurate view of what is to come.
    - Increased research, faster computers and improved visualization software may aid in this area.
  - You have make the best decision based upon your knowledge at the time – similar to airplane pilots, doctors, military personnel.
- In summary, while there were signs of an improving environment for tornadic supercells, no available guidance was able to create *as* favorable a tornadic environment as was observed.

